Daniel C.W. Tsang

List of Publications by Citations

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The third column is the impact factor (IF) of the journal, and the fourth column is the number of citations of the article.

787 papers	39,099 citations	100 h-index	148 g-index
808 ext. papers	52,979 ext. citations	9.7 avg, IF	8.43 L-index

#	Paper	IF	Citations
787	Engineered/designer biochar for contaminant removal/immobilization from soil and water: Potential and implication of biochar modification. *Chemosphere*, **2016**, 148, 276-91	8.4	703
786	Residues of veterinary antibiotics in manures from feedlot livestock in eight provinces of China. *Science of the Total Environment*, **2010**, 408, 1069-75	10.2	506
785	Removal of Cu, Zn, and Cd from aqueous solutions by the dairy manure-derived biochar. *Environmental Science and Pollution Research*, **2013**, 20, 358-68	5.1	388
784	Modification of biochar derived from sawdust and its application in removal of tetracycline and copper from aqueous solution: Adsorption mechanism and modelling. *Bioresource Technology*, **2017** , 245, 266-273	11	372
783	Biochar application to low fertility soils: A review of current status, and future prospects. *Geoderma* , **2019**, 337, 536-554	6.7	357
782	Soil amendments for immobilization of potentially toxic elements in contaminated soils: A critical review. *Environment International*, **2020**, 134, 105046	12.9	352
781	Effect of pyrolysis temperature, heating rate, and residence time on rapeseed stem derived biochar. *Journal of Cleaner Production*, **2018**, 174, 977-987	10.3	316
780	Comparison of rice husk- and dairy manure-derived biochars for simultaneously removing heavy metals from aqueous solutions: role of mineral components in biochars. *Chemosphere*, **2013**, 92, 955-61	8.4	313
779	Biochar application for the remediation of heavy metal polluted land: A review of in situ field trials. *Science of the Total Environment*, **2018**, 619-620, 815-826	10.2	310
778	Adsorption of tetracycline antibiotics from aqueous solutions on nanocomposite multi-walled carbon nanotube functionalized MIL-53(Fe) as new adsorbent. *Science of the Total Environment*, **2018**, 627, 235-244	10.2	304
777	A review of biochar-based catalysts for chemical synthesis, biofuel production, and pollution control. *Bioresource Technology*, **2017**, 246, 254-270	11	300
776	Conversion of biomass to hydroxymethylfurfural: A review of catalytic systems and underlying mechanisms. *Bioresource Technology*, **2017**, 238, 716-732	11	293
775	Multifunctional iron-biochar composites for the removal of potentially toxic elements, inherent cations, and hetero-chloride from hydraulic fracturing wastewater. *Environment International*, **2019**, 124, 521-532	12.9	287
774	Design of graphene-coated hollow mesoporous carbon spheres as high performance electrodes for capacitive deionization. *Journal of Materials Chemistry A*, **2014**, 2, 4739-4750	13	282
773	Efficacy of carbonaceous nanocomposites for sorbing ionizable antibiotic sulfamethazine from aqueous solution. *Water Research*, **2016**, 95, 103-12	12.5	260
772	A critical review on effects, tolerance mechanisms and management of cadmium in vegetables. *Chemosphere*, **2017**, 182, 90-105	8.4	232
771	Wood-based biochar for the removal of potentially toxic elements in water and wastewater: a critical review. *International Materials Reviews*, **2019**, 64, 216-247	16.1	228

770	Metal-free carbon materials-catalyzed sulfate radical-based advanced oxidation processes: A review on heterogeneous catalysts and applications. *Chemosphere*, **2017**, 189, 224-238	8.4	216
769	Biochar technology in wastewater treatment: A critical review. *Chemosphere*, **2020**, 252, 126539	8.4	209
768	Heterogeneity of biochar properties as a function of feedstock sources and production temperatures. *Journal of Hazardous Materials*, **2013**, 256-257, 1-9	12.8	206
767	Production of bioplastic through food waste valorization. *Environment International*, **2019**, 127, 625-644	12.9	200
766	Insight into electro-Fenton and photo-Fenton for the degradation of antibiotics: Mechanism study and research gaps. *Chemical Engineering Journal*, **2018**, 347, 379-397	14.7	195
765	The Interfacial Behavior between Biochar and Soil Minerals and Its Effect on Biochar Stability. *Environmental Science & Technology*, **2016**, 50, 2264-71	10.3	192
764	A critical review on sustainable biochar system through gasification: Energy and environmental applications. *Bioresource Technology*, **2017**, 246, 242-253	11	188
763	Mobility and phytoavailability of As and Pb in a contaminated soil using pine sawdust biochar under systematic change of redox conditions. *Chemosphere*, **2017**, 178, 110-118	8.4	185
762	Engineered/designer biochar for the removal of phosphate in water and wastewater. *Science of the Total Environment*, **2018**, 616-617, 1242-1260	10.2	185
761	Heavy metal immobilization and microbial community abundance by vegetable waste and pine cone biochar of agricultural soils. *Chemosphere*, **2017**, 174, 593-603	8.4	184
760	Environmental transformations and ecological effects of iron-based nanoparticles. *Environmental Pollution*, **2018**, 232, 10-30	9.3	184
759	Lignin valorization for the production of renewable chemicals: State-of-the-art review and future prospects. *Bioresource Technology*, **2018**, 269, 465-475	11	182
758	Effects of mineral additives on biochar formation: carbon retention, stability, and properties. *Environmental Science & Technology*, **2014**, 48, 11211-7	10.3	180
757	Cadmium phytoremediation potential of Brassica crop species: A review. *Science of the Total Environment*, **2018**, 631-632, 1175-1191	10.2	177
756	Fabrication and characterization of hydrophilic corn stalk biochar-supported nanoscale zero-valent iron composites for efficient metal removal. *Bioresource Technology*, **2018**, 265, 490-497	11	176
755	Green remediation of As and Pb contaminated soil using cement-free clay-based stabilization/solidification. *Environment International*, **2019**, 126, 336-345	12.9	175
754	Effective removal of Cr(VI) using β-cyclodextrin-chitosan modified biochars with adsorption/reduction bifuctional roles. *RSC Advances*, **2016**, 6, 94-104	3.7	174
753	Metal contamination and bioremediation of agricultural soils for food safety and sustainability. *Nature Reviews Earth & Environment*, **2020**, 1, 366-381	30.2	171

752	Indispensable role of biochar-inherent mineral constituents in its environmental applications: A review. *Bioresource Technology*, **2017**, 241, 887-899	11	170
751	Algae as potential feedstock for the production of biofuels and value-added products: Opportunities and challenges. *Science of the Total Environment*, **2020**, 716, 137116	10.2	168
750	A green biochar/iron oxide composite for methylene blue removal. *Journal of Hazardous Materials*, **2020**, 384, 121286	12.8	165
749	Polycyclic aromatic hydrocarbons in soils from urban to rural areas in Nanjing: Concentration, source, spatial distribution, and potential human health risk. *Science of the Total Environment*, **2015**, 527-528, 375-83	10.2	158
748	Assessment of sources of heavy metals in soil and dust at children's playgrounds in Beijing using GIS and multivariate statistical analysis. *Environment International*, **2019**, 124, 320-328	12.9	157
747	Internal phosphorus loading from sediments causes seasonal nitrogen limitation for harmful algal blooms. *Science of the Total Environment*, **2018**, 625, 872-884	10.2	156
746	Valorization of biomass to hydroxymethylfurfural, levulinic acid, and fatty acid methyl ester by heterogeneous catalysts. *Chemical Engineering Journal*, **2017**, 328, 246-273	14.7	156
745	Carbon-based materials as adsorbent for antibiotics removal: Mechanisms and influencing factors. *Journal of Environmental Management*, **2019**, 237, 128-138	7.9	154
744	Organic contamination and remediation in the agricultural soils of China: A critical review. *Science of the Total Environment*, **2018**, 615, 724-740	10.2	152
743	Biochar-supported nanoscale zero-valent iron as an efficient catalyst for organic degradation in groundwater. *Journal of Hazardous Materials*, **2020**, 383, 121240	12.8	149
742	Biochar-induced changes in soil properties affected immobilization/mobilization of metals/metalloids in contaminated soils. *Journal of Soils and Sediments*, **2017**, 17, 717-730	3.4	148
741	Effect of production temperature on lead removal mechanisms by rice straw biochars. *Science of the Total Environment*, **2019**, 655, 751-758	10.2	148
740	Hydrothermal liquefaction of agricultural and forestry wastes: state-of-the-art review and future prospects. *Bioresource Technology*, **2017**, 245, 1184-1193	11	147
739	Biochar composition-dependent impacts on soil nutrient release, carbon mineralization, and potential environmental risk: A review. *Journal of Environmental Management*, **2019**, 241, 458-467	7.9	145
738	Green synthesis of gamma-valerolactone (GVL) through hydrogenation of biomass-derived levulinic acid using non-noble metal catalysts: A critical review. *Chemical Engineering Journal*, **2019**, 372, 992-1006	14.7	144
737	Nanoparticle-plant interaction: Implications in energy, environment, and agriculture. *Environment International*, **2018**, 119, 1-19	12.9	143
736	Formation, characteristics, and applications of environmentally persistent free radicals in biochars: A review. *Bioresource Technology*, **2019**, 281, 457-468	11	142
735	Influence of soil properties and feedstocks on biochar potential for carbon mineralization and improvement of infertile soils. *Geoderma*, **2018**, 332, 100-108	6.7	142

734	Pyrolysis process of agricultural waste using CO2 for waste management, energy recovery, and biochar fabrication. *Applied Energy*, **2017**, 185, 214-222	10.7	142
733	Electrocatalytic properties of N-doped graphite felt in electro-Fenton process and degradation mechanism of levofloxacin. *Chemosphere*, **2017**, 182, 306-315	8.4	141
732	Chromium(VI) reduction kinetics by zero-valent iron in moderately hard water with humic acid: iron dissolution and humic acid adsorption. *Environmental Science & Technology*, **2008**, 42, 2092-8	10.3	141
731	Lignin materials for adsorption: Current trend, perspectives and opportunities. *Bioresource Technology*, **2019**, 272, 570-581	11	141
730	Insight into highly efficient co-removal of p-nitrophenol and lead by nitrogen-functionalized magnetic ordered mesoporous carbon: Performance and modelling. *Journal of Hazardous Materials*, **2017**, 333, 80-87	12.8	139
729	Removal of hexavalent chromium in aqueous solutions using biochar: Chemical and spectroscopic investigations. *Science of the Total Environment*, **2018**, 625, 1567-1573	10.2	139
728	High-performance materials for effective sorptive removal of formaldehyde in air. *Journal of Hazardous Materials*, **2019**, 366, 452-465	12.8	139
727	Value-added chemicals from food supply chain wastes: State-of-the-art review and future prospects. *Chemical Engineering Journal*, **2019**, 375, 121983	14.7	138
726	Microplastics as pollutants in agricultural soils. *Environmental Pollution*, **2020**, 265, 114980	9.3	137
725	Reduction of p-nitrophenol by magnetic Co-carbon composites derived from metal organic frameworks. *Chemical Engineering Journal*, **2016**, 298, 183-190	14.7	137
724	Assembling biochar with various layered double hydroxides for enhancement of phosphorus recovery. *Journal of Hazardous Materials*, **2019**, 365, 665-673	12.8	136
723	Potential Utility of Metal-Organic Framework-Based Platform for Sensing Pesticides. *ACS Applied Materials & Interfaces*, **2018**, 10, 8797-8817	9.5	135
722	Supramolecular metal-organic frameworks that display high homogeneous and heterogeneous photocatalytic activity for H2 production. *Nature Communications*, **2016**, 7, 11580	17.4	135
721	A sustainable biochar catalyst synergized with copper heteroatoms and CO2 for singlet oxygenation and electron transfer routes. *Green Chemistry*, **2019**, 21, 4800-4814	10	133
720	Antimony contamination, consequences and removal techniques: A review. *Ecotoxicology and Environmental Safety*, **2018**, 156, 125-134	7	132
719	Treatment of arsenic in acid wastewater and river sediment by Fe@FeO nanobunches: The effect of environmental conditions and reaction mechanism. *Water Research*, **2017**, 117, 175-186	12.5	130
718	Copyrolysis of Biomass with Phosphate Fertilizers To Improve Biochar Carbon Retention, Slow Nutrient Release, and Stabilize Heavy Metals in Soil. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 1630-1636	8.3	129
717	Environmental fate, toxicity and risk management strategies of nanoplastics in the environment: Current status and future perspectives. *Journal of Hazardous Materials*, **2021**, 401, 123415	12.8	129

716	Low-carbon and low-alkalinity stabilization/solidification of high-Pb contaminated soil. *Chemical Engineering Journal*, **2018**, 351, 418-427	14.7	128
715	Advances and future directions of biochar characterization methods and applications. *Critical Reviews in Environmental Science and Technology*, **2017**, 47, 2275-2330	11.1	128
714	Ball milling as a mechanochemical technology for fabrication of novel biochar nanomaterials. *Bioresource Technology*, **2020**, 312, 123613	11	124
713	Aluminium-biochar composites as sustainable heterogeneous catalysts for glucose isomerisation in a biorefinery. *Green Chemistry*, **2019**, 21, 1267-1281	10	124
712	Sustainable food waste management towards circular bioeconomy: Policy review, limitations and opportunities. *Bioresource Technology*, **2020**, 297, 122497	11	117
711	Microwave vacuum pyrolysis of waste plastic and used cooking oil for simultaneous waste reduction and sustainable energy conversion: Recovery of cleaner liquid fuel and techno-economic analysis. *Renewable and Sustainable Energy Reviews*, **2019**, 115, 109359	16.2	116
710	A review on biochar modulated soil condition improvements and nutrient dynamics concerning crop yields: Pathways to climate change mitigation and global food security. *Chemosphere*, **2019**, 227, 345-365	8.4	115
709	Fabrication and environmental applications of multifunctional mixed metal-biochar composites (MMBC) from red mud and lignin wastes. *Journal of Hazardous Materials*, **2019**, 374, 412-419	12.8	114
708	A combination of ferric nitrate/EDDS-enhanced washing and sludge-derived biochar stabilization of metal-contaminated soils. *Science of the Total Environment*, **2018**, 616-617, 572-582	10.2	114
707	Advances in lignin valorization towards bio-based chemicals and fuels: Lignin biorefinery. *Bioresource Technology*, **2019**, 291, 121878	11	113
706	Synthesis and application of iron and zinc doped biochar for removal of p-nitrophenol in wastewater and assessment of the influence of co-existed Pb(II). *Applied Surface Science*, **2017**, 392, 391-401	6.7	112
705	Bioremediation of water containing pesticides by microalgae: Mechanisms, methods, and prospects for future research. *Science of the Total Environment*, **2020**, 707, 136080	10.2	112
704	Mechanistic insights into adsorption and reduction of hexavalent chromium from water using magnetic biochar composite: Key roles of FeO and persistent free radicals. *Environmental Pollution*, **2018**, 243, 1302-1309	9.3	112
703	Synthesis of MgO-coated corncob biochar and its application in lead stabilization in a soil washing residue. *Environment International*, **2019**, 122, 357-362	12.9	111
702	Plenty of room for carbon on the ground: Potential applications of biochar for stormwater treatment. *Science of the Total Environment*, **2018**, 625, 1644-1658	10.2	110
701	Corn straw-derived biochar impregnated with ⊞FeOOH nanorods for highly effective copper removal. *Chemical Engineering Journal*, **2018**, 348, 191-201	14.7	110
700	Influence of lead on stabilization/solidification by ordinary Portland cement and magnesium phosphate cement. *Chemosphere*, **2018**, 190, 90-96	8.4	110
699	Novel synergy of Si-rich minerals and reactive MgO for stabilisation/solidification of contaminated sediment. *Journal of Hazardous Materials*, **2019**, 365, 695-706	12.8	110

698	Physicochemical features, metal availability and enzyme activity in heavy metal-polluted soil remediated by biochar and compost. *Science of the Total Environment*, **2020**, 701, 134751	10.2	109
697	Microwave-assisted low-temperature hydrothermal treatment of red seaweed (Gracilaria lemaneiformis) for production of levulinic acid and algae hydrochar. *Bioresource Technology*, **2019**, 273, 251-258	11	108
696	Contamination of phthalate esters, organochlorine pesticides and polybrominated diphenyl ethers in agricultural soils from the Yangtze River Delta of China. *Science of the Total Environment*, **2016**, 544, 670-6	10.2	106
695	Effect of amorphous silica and silica sand on removal of chromium(VI) by zero-valent iron. *Chemosphere*, **2007**, 66, 858-65	8.4	106
694	An overview on engineering the surface area and porosity of biochar. *Science of the Total Environment*, **2021**, 763, 144204	10.2	106
693	Sorption of norfloxacin, sulfamerazine and oxytetracycline by KOH-modified biochar under single and ternary systems. *Bioresource Technology*, **2018**, 263, 385-392	11	104
692	Thallium pollution in China and removal technologies for waters: A review. *Environment International*, **2019**, 126, 771-790	12.9	103
691	Fault reactivation and earthquakes with magnitudes of up to Mw4.7 induced by shale-gas hydraulic fracturing in Sichuan Basin, China. *Scientific Reports*, **2017**, 7, 7971	4.9	103
690	Sustainable stabilization/solidification of municipal solid waste incinerator fly ash by incorporation of green materials. *Journal of Cleaner Production*, **2019**, 222, 335-343	10.3	102
689	The roles of biochar as green admixture for sediment-based construction products. *Cement and Concrete Composites*, **2019**, 104, 103348	8.6	101
688	Applications and factors influencing of the persulfate-based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds. *Journal of Hazardous Materials*, **2018**, 359, 396-407	12.8	101
687	Stabilization of cationic and anionic metal species in contaminated soils using sludge-derived biochar. *Chemosphere*, **2016**, 149, 263-71	8.4	100
686	Effect of gasification biochar application on soil quality: Trace metal behavior, microbial community, and soil dissolved organic matter. *Journal of Hazardous Materials*, **2019**, 365, 684-694	12.8	100
685	New trends in biochar pyrolysis and modification strategies: feedstock, pyrolysis conditions, sustainability concerns and implications for soil amendment. *Soil Use and Management*, **2020**, 36, 358-386	3.1	100
684	Catalytic valorization of starch-rich food waste into hydroxymethylfurfural (HMF): Controlling relative kinetics for high productivity. *Bioresource Technology*, **2017**, 237, 222-230	11	99
683	Remediation of Cu, Pb, Zn and Cd-contaminated agricultural soil using a combined red mud and compost amendment. *International Biodeterioration and Biodegradation*, **2017**, 118, 73-81	4.8	99
682	Biodegradation of methylene blue dye in a batch and continuous mode using biochar as packing media. *Environmental Research*, **2019**, 171, 356-364	7.9	99
681	Production of 5-hydroxymethylfurfural from starch-rich food waste catalyzed by sulfonated biochar. *Bioresource Technology*, **2018**, 252, 76-82	11	99

680	Biorenewable hydrogen production through biomass gasification: A review and future prospects. *Environmental Research*, **2020**, 186, 109547	7.9	99
679	Fabrication of sustainable manganese ferrite modified biochar from vinasse for enhanced adsorption of fluoroquinolone antibiotics: Effects and mechanisms. *Science of the Total Environment*, **2020**, 709, 136079	10.2	98
678	Bamboo- and pig-derived biochars reduce leaching losses of dibutyl phthalate, cadmium, and lead from co-contaminated soils. *Chemosphere*, **2018**, 198, 450-459	8.4	97
677	Copper extraction effectiveness and soil dissolution issues of EDTA-flushing of artificially contaminated soils. *Chemosphere*, **2007**, 68, 234-43	8.4	97
676	A critical review on biochar for enhancing biogas production from anaerobic digestion of food waste and sludge. *Journal of Cleaner Production*, **2021**, 305, 127143	10.3	97
675	Concurrent adsorption and micro-electrolysis of Cr(VI) by nanoscale zerovalent iron/biochar/Ca-alginate composite. *Environmental Pollution*, **2019**, 247, 410-420	9.3	97
674	Biochar as green additives in cement-based composites with carbon dioxide curing. *Journal of Cleaner Production*, **2020**, 258, 120678	10.3	93
673	pH Dependence of Arsenic Oxidation by Rice-Husk-Derived Biochar: Roles of Redox-Active Moieties. *Environmental Science & Technology*, **2019**, 53, 9034-9044	10.3	93
672	Effects of calcium carbonate on pyrolysis of sewage sludge. *Energy*, **2018**, 153, 726-731	7.9	92
671	Biochar Aging: Mechanisms, Physicochemical Changes, Assessment, And Implications for Field Applications. *Environmental Science & Technology*, **2020**, 54, 14797-14814	10.3	92
670	Comparison of sewage sludge- and pig manure-derived biochars for hydrogen sulfide removal. *Chemosphere*, **2014**, 111, 296-303	8.4	89
669	Exploring the arsenic removal potential of various biosorbents from water. *Environment International*, **2019**, 123, 567-579	12.9	89
668	The potential of green synthesized zinc oxide nanoparticles as nutrient source for plant growth. *Journal of Cleaner Production*, **2019**, 214, 1061-1070	10.3	88
667	Arsenic-containing soil from geogenic source in Hong Kong: Leaching characteristics and stabilization/solidification. *Chemosphere*, **2017**, 182, 31-39	8.4	87
666	Agricultural biomass/waste as adsorbents for toxic metal decontamination of aqueous solutions. *Journal of Molecular Liquids*, **2019**, 295, 111684	6	87
665	Fuel properties and combustion kinetics of hydrochar prepared by hydrothermal carbonization of bamboo. *Bioresource Technology*, **2016**, 205, 199-204	11	87
664	Potential value of phosphate compounds in enhancing immobilization and reducing bioavailability of mixed heavy metal contaminants in shooting range soil. *Chemosphere*, **2017**, 184, 197-206	8.4	87
663	Biochar-induced metal immobilization and soil biogeochemical process: An integrated mechanistic approach. *Science of the Total Environment*, **2020**, 698, 134112	10.2	87

662	Green synthesis of nanoparticles for the remediation of contaminated waters and soils: Constituents, synthesizing methods, and influencing factors. *Journal of Cleaner Production*, **2019**, 226, 540-549	10.3	86
661	Enhanced adsorption performance and governing mechanisms of ball-milled biochar for the removal of volatile organic compounds (VOCs). *Chemical Engineering Journal*, **2020**, 385, 123842	14.7	86
660	Green remediation and recycling of contaminated sediment by waste-incorporated stabilization/solidification. *Chemosphere*, **2015**, 122, 257-264	8.4	85
659	Transformation of Tetracycline Antibiotics and Fe(II) and Fe(III) Species Induced by Their Complexation. *Environmental Science & Technology*, **2016**, 50, 145-53	10.3	85
658	Antibiotics in the agricultural soils from the Yangtze River Delta, China. *Chemosphere*, **2017**, 189, 301-308	8.4	85
657	Single and simultaneous adsorption of pefloxacin and Cu(II) ions from aqueous solutions by oxidized multiwalled carbon nanotube. *Science of the Total Environment*, **2019**, 646, 29-36	10.2	84
656	Fabrication of engineered biochar from paper mill sludge and its application into removal of arsenic and cadmium in acidic water. *Bioresource Technology*, **2017**, 246, 69-75	11	84
655	Biochar-based functional materials in the purification of agricultural wastewater: Fabrication, application and future research needs. *Chemosphere*, **2018**, 197, 165-180	8.4	83
654	Chemical transformation of CO2 during its capture by waste biomass derived biochars. *Environmental Pollution*, **2016**, 213, 533-540	9.3	83
653	Phytomanagement of heavy metals in contaminated soils using sunflower: A review. *Critical Reviews in Environmental Science and Technology*, **2016**, 46, 1498-1528	11.1	82
652	Biochar-based adsorbents for carbon dioxide capture: A critical review. *Renewable and Sustainable Energy Reviews*, **2020**, 119, 109582	16.2	81
651	Nanoscale zero-valent iron for metal/metalloid removal from model hydraulic fracturing wastewater. *Chemosphere*, **2017**, 176, 315-323	8.4	80
650	Characterization of bioenergy biochar and its utilization for metal/metalloid immobilization in contaminated soil. *Science of the Total Environment*, **2018**, 640-641, 704-713	10.2	80
649	Valorization of cellulosic food waste into levulinic acid catalyzed by heterogeneous Brønsted acids: Temperature and solvent effects. *Chemical Engineering Journal*, **2017**, 327, 328-335	14.7	80
648	Competitive Cu and Cd sorption and transport in soils: a combined batch kinetics, column, and sequential extraction study. *Environmental Science & Technology*, **2006**, 40, 6655-61	10.3	80
647	Recycling contaminated wood into eco-friendly particleboard using green cement and carbon dioxide curing. *Journal of Cleaner Production*, **2016**, 137, 861-870	10.3	80
646	Highly efficient removal of thallium in wastewater by MnFeO-biochar composite. *Journal of Hazardous Materials*, **2021**, 401, 123311	12.8	80
645	Interaction of organic and inorganic fractions of biochar with Pb(II) ion: further elucidation of mechanisms for Pb(II) removal by biochar. *RSC Advances*, **2014**, 4, 44930-44937	3.7	79

644	Selective dissolution followed by EDDS washing of an e-waste contaminated soil: Extraction efficiency, fate of residual metals, and impact on soil environment. *Chemosphere*, **2017**, 166, 489-496	8.4	79
643	Valorization of food waste into hydroxymethylfurfural: Dual role of metal ions in successive conversion steps. *Bioresource Technology*, **2016**, 219, 338-347	11	79
642	Cryptic footprints of rare earth elements on natural resources and living organisms. *Environment International*, **2019**, 127, 785-800	12.9	78
641	Customised fabrication of nitrogen-doped biochar for environmental and energy applications. *Chemical Engineering Journal*, **2020**, 401, 126136	14.7	78
640	Contrasting impacts of pre- and post-application aging of biochar on the immobilization of Cd in contaminated soils. *Environmental Pollution*, **2018**, 242, 1362-1370	9.3	78
639	Novel carbon based Fe-Co oxides derived from Prussian blue analogues activating peroxymonosulfate: Refractory drugs degradation without metal leaching. *Chemical Engineering Journal*, **2020**, 379, 122274	14.7	78
638	Effect of pulverized fuel ash and CO 2 curing on the water resistance of magnesium oxychloride cement (MOC). *Cement and Concrete Research*, **2017**, 97, 115-122	10.3	77
637	Fate of arsenic before and after chemical-enhanced washing of an arsenic-containing soil in Hong Kong. *Science of the Total Environment*, **2017**, 599-600, 679-688	10.2	77
636	Groundwater depletion and contamination: Spatial distribution of groundwater resources sustainability in China. *Science of the Total Environment*, **2019**, 672, 551-562	10.2	77
635	A sustainable ferromanganese biochar adsorbent for effective levofloxacin removal from aqueous medium. *Chemosphere*, **2019**, 237, 124464	8.4	77
634	Removal of Sulfur Compounds by a Copper-Based Metal Organic Framework under Ambient Conditions. *Energy & Fuels*, **2015**, 29, 298-304	4.1	76
633	Biofiltration of hydrogen sulfide: Trends and challenges. *Journal of Cleaner Production*, **2018**, 187, 131-147	6.3	75
632	Biochar- and phosphate-induced immobilization of heavy metals in contaminated soil and water: implication on simultaneous remediation of contaminated soil and groundwater. *Environmental Science and Pollution Research*, **2014**, 21, 4665-74	5.1	75
631	Degradation of antibiotics by modified vacuum-UV based processes: Mechanistic consequences of HO and KSO in the presence of halide ions. *Science of the Total Environment*, **2019**, 664, 312-321	10.2	75
630	Hydrochar-Facilitated Anaerobic Digestion: Evidence for Direct Interspecies Electron Transfer Mediated through Surface Oxygen-Containing Functional Groups. *Environmental Science & Technology*, **2020**, 54, 5755-5766	10.3	74
629	Optimizing the synthesis of Fe/Al (Hydr)oxides-Biochars to maximize phosphate removal via response surface model. *Journal of Cleaner Production*, **2019**, 237, 117770	10.3	74
628	Mineral constituents profile of biochar derived from diversified waste biomasses: implications for agricultural applications. *Journal of Environmental Quality*, **2013**, 42, 545-52	3.4	74
627	Value-added recycling of construction waste wood into noise and thermal insulating cement-bonded particleboards. *Construction and Building Materials*, **2016**, 125, 316-325	6.7	74

626	Experimental and theoretical aspects of biochar-supported nanoscale zero-valent iron activating HO for ciprofloxacin removal from aqueous solution. *Journal of Hazardous Materials*, **2019**, 380, 120848	12.8	73
625	Surface-modified biochar in a bioretention system for Escherichia coli removal from stormwater. *Chemosphere*, **2017**, 169, 89-98	8.4	73
624	Extended theory of planned behaviour for promoting construction waste recycling in Hong Kong. *Waste Management*, **2019**, 83, 161-170	8.6	73
623	Thallium contamination in farmlands and common vegetables in a pyrite mining city and potential health risks. *Environmental Pollution*, **2019**, 248, 906-915	9.3	72
622	Phosphoric acid-activated wood biochar for catalytic conversion of starch-rich food waste into glucose and 5-hydroxymethylfurfural. *Bioresource Technology*, **2018**, 267, 242-248	11	72
621	Arbuscular mycorrhizal fungi-induced mitigation of heavy metal phytotoxicity in metal contaminated soils: A critical review. *Journal of Hazardous Materials*, **2021**, 402, 123919	12.8	72
620	Green remediation of contaminated sediment by stabilization/solidification with industrial by-products and CO utilization. *Science of the Total Environment*, **2018**, 631-632, 1321-1327	10.2	71
619	Arsenic removal by natural and chemically modified water melon rind in aqueous solutions and groundwater. *Science of the Total Environment*, **2018**, 645, 1444-1455	10.2	71
618	Activated Carbon Produced from Waste Wood Pallets: Adsorption of Three Classes of Dyes. *Water, Air, and Soil Pollution*, **2007**, 184, 141-155	2.6	71
617	Roles of Phosphoric Acid in Biochar Formation: Synchronously Improving Carbon Retention and Sorption Capacity. *Journal of Environmental Quality*, **2017**, 46, 393-401	3.4	70
616	Oxidation of tetracycline antibiotics induced by Fe(III) ions without light irradiation. *Chemosphere*, **2015**, 119, 1255-1261	8.4	70
615	Kinetic interactions of EDDS with soils. 1. Metal resorption and competition under EDDS deficiency. *Environmental Science & Technology*, **2009**, 43, 831-6	10.3	70
614	Different mechanisms between biochar and activated carbon for the persulfate catalytic degradation of sulfamethoxazole: Roles of radicals in solution or solid phase. *Chemical Engineering Journal*, **2019**, 375, 121908	14.7	69
613	Synergistic adsorption of phosphorus by iron in lanthanum modified bentonite (Phoslock): New insight into sediment phosphorus immobilization. *Water Research*, **2018**, 134, 32-43	12.5	69
612	Rapid and effective removal of uranium (VI) from aqueous solution by facile synthesized hierarchical hollow hydroxyapatite microspheres. *Journal of Hazardous Materials*, **2019**, 371, 397-405	12.8	69
611	A critical review of risks, characteristics, and treatment strategies for potentially toxic elements in wastewater from shale gas extraction. *Environment International*, **2019**, 125, 452-469	12.9	69
610	A novel electrochemical modification combined with one-step pyrolysis for preparation of sustainable thorn-like iron-based biochar composites. *Bioresource Technology*, **2019**, 274, 379-385	11	69
609	Effect of dissolved organic carbon from sludge, Rice straw and spent coffee ground biochar on the mobility of arsenic in soil. *Science of the Total Environment*, **2018**, 636, 1241-1248	10.2	69

608	Kinetic interactions of EDDS with soils. 2. Metal-EDDS complexes in uncontaminated and metal contaminated soils. *Environmental Science & Technology*, **2009**, 43, 837-42	10.3	68
607	Spatial distribution, emission source and health risk of parent PAHs and derivatives in surface soils from the Yangtze River Delta, eastern China. *Chemosphere*, **2017**, 178, 301-308	8.4	67
606	Bacterial polyhydroxyalkanoates: Opportunities, challenges, and prospects. *Journal of Cleaner Production*, **2020**, 263, 121500	10.3	67
605	Size dependence of nanosheet BiVO4 with oxygen vacancies and exposed {0 0 1} facets on the photodegradation of oxytetracycline. *Chemical Engineering Journal*, **2018**, 337, 684-696	14.7	67
604	Recycling dredged sediment into fill materials, partition blocks, and paving blocks: Technical and economic assessment. *Journal of Cleaner Production*, **2018**, 199, 69-76	10.3	67
603	A critical review on livestock manure biorefinery technologies: Sustainability, challenges, and future perspectives. *Renewable and Sustainable Energy Reviews*, **2021**, 135, 110033	16.2	67
602	Physicochemical property and colloidal stability of micron- and nano-particle biochar derived from a variety of feedstock sources. *Science of the Total Environment*, **2019**, 661, 685-695	10.2	66
601	A review of recent advancements in utilization of biomass and industrial wastes into engineered biochar. *Journal of Hazardous Materials*, **2020**, 400, 123242	12.8	66
600	Propylene carbonate and γ-valerolactone as green solvents enhance Sn(IV)-catalysed hydroxymethylfurfural (HMF) production from bread waste. *Green Chemistry*, **2018**, 20, 2064-2074	10	66
599	Corn waste valorization to generate activated hydrochar to recover ammonium nitrogen from compost leachate by hydrothermal assisted pretreatment. *Journal of Environmental Management*, **2019**, 236, 108-117	7.9	66
598	Ciprofloxacin adsorption on graphene and granular activated carbon: kinetics, isotherms, and effects of solution chemistry. *Environmental Technology (United Kingdom)*, **2015**, 36, 3094-102	2.6	65
597	Carbon dioxide assisted sustainability enhancement of pyrolysis of waste biomass: A case study with spent coffee ground. *Bioresource Technology*, **2015**, 189, 1-6	11	65
596	Production of biochars from Ca impregnated ramie biomass (Boehmeria nivea (L.) Gaud.) and their phosphate removal potential. *RSC Advances*, **2016**, 6, 5871-5880	3.7	65
595	Synthesis of nanomaterials from various wastes and their new age applications. *Journal of Cleaner Production*, **2018**, 197, 1190-1209	10.3	65
594	Effects of phosphorus amendments and plant growth on the mobility of Pb, Cu, and Zn in a multi-metal-contaminated soil. *Environmental Science and Pollution Research*, **2012**, 19, 1659-67	5.1	65
593	Accelerated carbonation of reactive MgO and Portland cement blends under flowing CO2 gas. *Cement and Concrete Composites*, **2020**, 106, 103489	8.6	65
592	Roles of biochar-derived dissolved organic matter in soil amendment and environmental remediation: A critical review. *Chemical Engineering Journal*, **2021**, 424, 130387	14.7	65
591	Mixture design and treatment methods for recycling contaminated sediment. *Journal of Hazardous Materials*, **2015**, 283, 623-32	12.8	64

590	Sustainable soil use and management: An interdisciplinary and systematic approach. *Science of the Total Environment*, **2020**, 729, 138961	10.2	64
589	Sustainable remediation with an electroactive biochar system: mechanisms and perspectives. *Green Chemistry*, **2020**, 22, 2688-2711	10	64
588	Biochar influences soil carbon pools and facilitates interactions with soil: A field investigation. *Land Degradation and Development*, **2018**, 29, 2162-2171	4.4	64
587	A highly active and anti-coking Pd-Pt/SiO2 catalyst for catalytic combustion of toluene at low temperature. *Applied Catalysis A: General*, **2017**, 529, 60-67	5.1	64
586	Sulfonated biochar as acid catalyst for sugar hydrolysis and dehydration. *Catalysis Today*, **2018**, 314, 52-61	5.3	63
585	Fabrication of magnetic biochar as a treatment medium for As(V) via pyrolysis of FeCl-pretreated spent coffee ground. *Environmental Pollution*, **2017**, 229, 942-949	9.3	63
584	Engineering pyrolysis biochar via single-step microwave steam activation for hazardous landfill leachate treatment. *Journal of Hazardous Materials*, **2020**, 390, 121649	12.8	63
583	Biochar pyrolyzed from MgAl-layered double hydroxides pre-coated ramie biomass (Boehmeria nivea (L.) Gaud.): Characterization and application for crystal violet removal. *Journal of Environmental Management*, **2016**, 184, 85-93	7.9	63
582	Effects of external additives: Biochar, bentonite, phosphate, on co-composting for swine manure and corn straw. *Chemosphere*, **2020**, 248, 125927	8.4	62
581	Metal distribution and spectroscopic analysis after soil washing with chelating agents and humic substances. *Environmental Science and Pollution Research*, **2014**, 21, 3987-95	5.1	62
580	Gasification biochar from biowaste (food waste and wood waste) for effective CO adsorption. *Journal of Hazardous Materials*, **2020**, 391, 121147	12.8	62
579	Phosphorus recovery and leaching of trace elements from incinerated sewage sludge ash (ISSA). *Chemosphere*, **2018**, 193, 278-287	8.4	62
578	Lead contamination in Chinese surface soils: Source identification, spatial-temporal distribution and associated health risks. *Critical Reviews in Environmental Science and Technology*, **2019**, 49, 1386-1423	11.1	61
577	Tailored design of graphitic biochar for high-efficiency and chemical-free microwave-assisted removal of refractory organic contaminants. *Chemical Engineering Journal*, **2020**, 398, 125505	14.7	61
576	Mechanistic insights into red mud, blast furnace slag, or metakaolin-assisted stabilization/solidification of arsenic-contaminated sediment. *Environment International*, **2019**, 133, 105247	12.9	60
575	The roles of halides in the acetaminophen degradation by UV/H2O2 treatment: Kinetics, mechanisms, and products analysis. *Chemical Engineering Journal*, **2015**, 271, 214-222	14.7	60
574	A review of microplastics aggregation in aquatic environment: Influence factors, analytical methods, and environmental implications. *Journal of Hazardous Materials*, **2021**, 402, 123496	12.8	60
573	Simultaneous production of syngas and magnetic biochar via pyrolysis of paper mill sludge using CO2 as reaction medium. *Energy Conversion and Management*, **2017**, 145, 1-9	10.6	59

572	Recent advances in mechanochemical production of chemicals and carbon materials from sustainable biomass resources. *Renewable and Sustainable Energy Reviews*, **2020**, 130, 109944	16.2	59
571	Soil stabilisation using AMD sludge, compost and lignite: TCLP leachability and continuous acid leaching. *Chemosphere*, **2013**, 93, 2839-47	8.4	59
570	Recent advances in control technologies for non-point source pollution with nitrogen and phosphorous from agricultural runoff: current practices and future prospects. *Applied Biological Chemistry*, **2020**, 63,	2.9	59
569	Iron-modified biochar and water management regime-induced changes in plant growth, enzyme activities, and phytoavailability of arsenic, cadmium and lead in a paddy soil. *Journal of Hazardous Materials*, **2021**, 407, 124344	12.8	59
568	Biochar/MnAl-LDH composites for Cu (II) removal from aqueous solution. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 538, 443-450	5.1	59
567	Recovery of phosphorus from incinerated sewage sludge ash by combined two-step extraction and selective precipitation. *Chemical Engineering Journal*, **2018**, 348, 74-83	14.7	58
566	Speciation, mobilization, and bioaccessibility of arsenic in geogenic soil profile from Hong Kong. *Environmental Pollution*, **2018**, 232, 375-384	9.3	58
565	Sludge-Derived Biochar for Arsenic(III) Immobilization: Effects of Solution Chemistry on Sorption Behavior. *Journal of Environmental Quality*, **2015**, 44, 1119-26	3.4	58
564	Humic acid aggregation in zero-valent iron systems and its effects on trichloroethylene removal. *Chemosphere*, **2009**, 75, 1338-43	8.4	58
563	Multifunctional applications of biochar beyond carbon storage. *International Materials Reviews*, **2022**, 1-51	16.1	58
562	Selective Glucose Isomerization to Fructose via a Nitrogen-doped Solid Base Catalyst Derived from Spent Coffee Grounds. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 16113-16120	8.3	58
561	Synthesis of Pd/Au bimetallic nanoparticle-loaded ultrathin graphitic carbon nitride nanosheets for highly efficientcatalytic reduction of p-nitrophenol. *Journal of Colloid and Interface Science*, **2017**, 490, 834-843	9.3	57
560	Recent advances in volatile organic compounds abatement by catalysis and catalytic hybrid processes: A critical review. *Science of the Total Environment*, **2020**, 719, 137405	10.2	57
559	Pine sawdust biomass and biochars at different pyrolysis temperatures change soil redox processes. *Science of the Total Environment*, **2018**, 625, 147-154	10.2	57
558	Enhanced adsorption of arsenic onto alum sludge modified by calcination. *Journal of Cleaner Production*, **2018**, 176, 54-62	10.3	57
557	The photodegradation of polybrominated diphenyl ethers (PBDEs) in various environmental matrices: Kinetics and mechanisms. *Chemical Engineering Journal*, **2016**, 297, 74-96	14.7	57
556	Wetland plant microbial fuel cells for remediation of hexavalent chromium contaminated soils and electricity production. *Journal of Hazardous Materials*, **2019**, 365, 137-145	12.8	57
555	Upcycling wood waste into fibre-reinforced magnesium phosphate cement particleboards. *Construction and Building Materials*, **2018**, 159, 54-63	6.7	57

554	Porous biochar composite assembled with ternary needle-like iron-manganese-sulphur hybrids for high-efficiency lead removal. *Bioresource Technology*, **2019**, 272, 415-420	11	56
553	Interaction with low molecular weight organic acids affects the electron shuttling of biochar for Cr(VI) reduction. *Journal of Hazardous Materials*, **2019**, 378, 120705	12.8	55
552	Red mud-enhanced magnesium phosphate cement for remediation of Pb and As contaminated soil. *Journal of Hazardous Materials*, **2020**, 400, 123317	12.8	55
551	Distribution and evolution of organic matter phases during biochar formation and their importance in carbon loss and pore structure. *Chemical Engineering Journal*, **2014**, 250, 240-247	14.7	55
550	Arsenic and copper stabilisation in a contaminated soil by coal fly ash and green waste compost. *Environmental Science and Pollution Research*, **2014**, 21, 10194-204	5.1	55
549	A critical review on performance indicators for evaluating soil biota and soil health of biochar-amended soils. *Journal of Hazardous Materials*, **2021**, 414, 125378	12.8	55
548	Comparison of glass powder and pulverized fuel ash for improving the water resistance of magnesium oxychloride cement. *Cement and Concrete Composites*, **2018**, 86, 98-109	8.6	55
547	Graphite oxide- and graphene oxide-supported catalysts for microwave-assisted glucose isomerisation in water. *Green Chemistry*, **2019**, 21, 4341-4353	10	54
546	Soil lead immobilization by biochars in short-term laboratory incubation studies. *Environment International*, **2019**, 127, 190-198	12.9	54
545	Impact of biochar on mobilization, methylation, and ethylation of mercury under dynamic redox conditions in a contaminated floodplain soil. *Environment International*, **2019**, 127, 276-290	12.9	54
544	Thermally treated zeolitic imidazolate framework-8 (ZIF-8) for visible light photocatalytic degradation of gaseous formaldehyde. *Chemical Science*, **2020**, 11, 6670-6681	9.4	54
543	Green immobilization of toxic metals using alkaline enhanced rice husk biochar: Effects of pyrolysis temperature and KOH concentration. *Science of the Total Environment*, **2020**, 720, 137584	10.2	54
542	Removal of lead by rice husk biochars produced at different temperatures and implications for their environmental utilizations. *Chemosphere*, **2019**, 235, 825-831	8.4	54
541	Transforming wood waste into water-resistant magnesia-phosphate cement particleboard modified by alumina and red mud. *Journal of Cleaner Production*, **2017**, 168, 452-462	10.3	54
540	Remediation of poly- and perfluoroalkyl substances (PFAS) contaminated soils - To mobilize or to immobilize or to degrade?. *Journal of Hazardous Materials*, **2021**, 401, 123892	12.8	54
539	Enhancement of phenanthrene adsorption on a clayey soil and clay minerals by coexisting lead or cadmium. *Chemosphere*, **2011**, 83, 302-10	8.4	53
538	Heavy metal extraction from an artificially contaminated sandy soil under EDDS deficiency: significance of humic acid and chelant mixture. *Chemosphere*, **2010**, 80, 416-21	8.4	53
537	Activation of peroxymonosulfate (PMS) by spinel ferrite and their composites in degradation of organic pollutants: A Review. *Chemical Engineering Journal*, **2021**, 414, 128800	14.7	53

536	Mechanisms of Pb and/or Zn adsorption by different biochars: Biochar characteristics, stability, and binding energies. *Science of the Total Environment*, **2020**, 717, 136894	10.2	52
535	Pb(II) sorption by biochar derived from Cinnamomum camphora and its improvement with ultrasound-assisted alkali activation. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2018**, 556, 177-184	5.1	52
534	Chiral pharmaceuticals: Environment sources, potential human health impacts, remediation technologies and future perspective. *Environment International*, **2018**, 121, 523-537	12.9	52
533	Enhanced adsorption of Cu(II) and Zn(II) from aqueous solution by polyethyleneimine modified straw hydrochar. *Science of the Total Environment*, **2021**, 778, 146116	10.2	52
532	Using incinerated sewage sludge ash to improve the water resistance of magnesium oxychloride cement (MOC). *Construction and Building Materials*, **2017**, 147, 519-524	6.7	51
531	Sustainable gasification biochar as a high efficiency adsorbent for CO2 capture: A facile method to designer biochar fabrication. *Renewable and Sustainable Energy Reviews*, **2020**, 124, 109785	16.2	51
530	Comparative analysis biochar and compost-induced degradation of di-(2-ethylhexyl) phthalate in soils. *Science of the Total Environment*, **2018**, 625, 987-993	10.2	51
529	Production of polyhydroxyalkanoates (PHA) by bacterial consortium from excess sludge fermentation liquid at laboratory and pilot scales. *Bioresource Technology*, **2014**, 171, 159-67	11	51
528	Weathering of microplastics and interaction with other coexisting constituents in terrestrial and aquatic environments. *Water Research*, **2021**, 196, 117011	12.5	51
527	Integrating EDDS-enhanced washing with low-cost stabilization of metal-contaminated soil from an e-waste recycling site. *Chemosphere*, **2016**, 159, 426-432	8.4	50
526	Polar aprotic solvent-water mixture as the medium for catalytic production of hydroxymethylfurfural (HMF) from bread waste. *Bioresource Technology*, **2017**, 245, 456-462	11	50
525	Recycling contaminated sediment into eco-friendly paving blocks by a combination of binary cement and carbon dioxide curing. *Journal of Cleaner Production*, **2017**, 164, 1279-1288	10.3	50
524	Kaolinite Enhances the Stability of the Dissolvable and Undissolvable Fractions of Biochar via Different Mechanisms. *Environmental Science & Technology*, **2018**, 52, 8321-8329	10.3	50
523	Mechanistic insight into efficient removal of tetracycline from water by Fe/graphene. *Chemical Engineering Journal*, **2019**, 373, 821-830	14.7	49
522	The potential value of biochar in the mitigation of gaseous emission of nitrogen. *Science of the Total Environment*, **2018**, 612, 257-268	10.2	49
521	Green remediation of Cd and Hg contaminated soil using humic acid modified montmorillonite: Immobilization performance under accelerated ageing conditions. *Journal of Hazardous Materials*, **2020**, 387, 122005	12.8	49
520	Use of Mg/Ca modified biochars to take up phosphorus from acid-extract of incinerated sewage sludge ash (ISSA) for fertilizer application. *Journal of Cleaner Production*, **2020**, 244, 118853	10.3	49
519	Thallium isotopic fractionation in industrial process of pyrite smelting and environmental implications. *Journal of Hazardous Materials*, **2020**, 384, 121378	12.8	49

518	Potential impact of flowback water from hydraulic fracturing on agricultural soil quality: Metal/metalloid bioaccessibility, Microtox bioassay, and enzyme activities. *Science of the Total Environment*, **2017**, 579, 1419-1426	10.2	48
517	Insights into the oxidation of organic contaminants by iron nanoparticles encapsulated within boron and nitrogen co-doped carbon nanoshell: Catalyzed Fenton-like reaction at natural pH. *Environment International*, **2019**, 128, 77-88	12.9	48
516	Valorization of lignocellulosic fibres of paper waste into levulinic acid using solid and aqueous Brønsted acid. *Bioresource Technology*, **2018**, 247, 387-394	11	48
515	Waste-derived compost and biochar amendments for stormwater treatment in bioretention column: Co-transport of metals and colloids. *Journal of Hazardous Materials*, **2020**, 383, 121243	12.8	48
514	Emerging risks of toxic metal(loid)s in soil-vegetables influenced by steel-making activities and isotopic source apportionment. *Environment International*, **2021**, 146, 106207	12.9	48
513	Date palm biochar-polymer composites: An investigation of electrical, mechanical, thermal and rheological characteristics. *Science of the Total Environment*, **2018**, 619-620, 311-318	10.2	48
512	Corn stover-derived biochar for efficient adsorption of oxytetracycline from wastewater. *Journal of Materials Research*, **2019**, 34, 3050-3060	2.5	47
511	Properties of recycled concrete aggregates strengthened by different types of pozzolan slurry. *Construction and Building Materials*, **2019**, 216, 632-647	6.7	47
510	Effect of metal oxide nanoparticles on amino acids in wheat grains (Triticum aestivum) in a life cycle study. *Journal of Environmental Management*, **2019**, 241, 319-327	7.9	47
509	Propene oligomerization to high-quality liquid fuels over Ni/HZSM-5. *Fuel*, **2015**, 144, 9-14	7.1	47
508	One-pot synthesis of nZVI-embedded biochar for remediation of two mining arsenic-contaminated soils: Arsenic immobilization associated with iron transformation. *Journal of Hazardous Materials*, **2020**, 398, 122901	12.8	47
507	Aging effects on chemical transformation and metal(loid) removal by entrapped nanoscale zero-valent iron for hydraulic fracturing wastewater treatment. *Science of the Total Environment*, **2018**, 615, 498-507	10.2	47
506	Life-cycle assessment on food waste valorisation to value-added products. *Journal of Cleaner Production*, **2018**, 199, 840-848	10.3	47
505	Valorization of starchy, cellulosic, and sugary food waste into hydroxymethylfurfural by one-pot catalysis. *Chemosphere*, **2017**, 184, 1099-1107	8.4	47
504	Short-term effects of raw rice straw and its derived biochar on greenhouse gas emission in five typical soils in China. *Soil Science and Plant Nutrition*, **2013**, 59, 800-811	1.6	47
503	New insights into the activity of a biochar supported nanoscale zerovalent iron composite and nanoscale zero valent iron under anaerobic or aerobic conditions. *RSC Advances*, **2017**, 7, 8755-8761	3.7	46
502	Mechanisms of U(VI) removal by biochar derived from Ficus microcarpa aerial root: A comparison between raw and modified biochar. *Science of the Total Environment*, **2019**, 697, 134115	10.2	46
501	Mechanisms and modelling of phosphorus solid–liquid transformation during the hydrothermal processing of swine manure. *Green Chemistry*, **2020**, 22, 5628-5638	10	46

500	Removal of Pb and MDF from contaminated soils by EDTA- and SDS-enhanced washing. *Chemosphere*, **2007**, 66, 2025-34	8.4	46
499	Temporal sedimentary record of thallium pollution in an urban lake: An emerging thallium pollution source from copper metallurgy. *Chemosphere*, **2020**, 242, 125172	8.4	46
498	Influence of green solvent on levulinic acid production from lignocellulosic paper waste. *Bioresource Technology*, **2020**, 298, 122544	11	46
497	Combined application of EDDS and EDTA for removal of potentially toxic elements under multiple soil washing schemes. *Chemosphere*, **2018**, 205, 178-187	8.4	45
496	Effects of atmospheric ageing under different temperatures on surface properties of sludge-derived biochar and metal/metalloid stabilization. *Chemosphere*, **2017**, 184, 176-184	8.4	44
495	Identifying the best materials for the removal of airborne toluene based on performance metrics - A critical review. *Journal of Cleaner Production*, **2019**, 241, 118408	10.3	44
494	Response of microbial communities and interactions to thallium in contaminated sediments near a pyrite mining area. *Environmental Pollution*, **2019**, 248, 916-928	9.3	44
493	Critical Review on Biochar-Supported Catalysts for Pollutant Degradation and Sustainable Biorefinery. *Advanced Sustainable Systems*, **2020**, 4, 1900149	5.9	44
492	Life-cycle cost-benefit analysis on sustainable food waste management: The case of Hong Kong International Airport. *Journal of Cleaner Production*, **2018**, 187, 751-762	10.3	44
491	Chelant-enhanced washing of CCA-contaminated soil: Coupled with selective dissolution or soil stabilization. *Science of the Total Environment*, **2018**, 612, 1463-1472	10.2	44
490	Progress in graphene-based materials as superior media for sensing, sorption, and separation of gaseous pollutants. *Coordination Chemistry Reviews*, **2018**, 368, 93-114	23.2	44
489	Potentially toxic elements in solid waste streams: Fate and management approaches. *Environmental Pollution*, **2019**, 253, 680-707	9.3	44
488	Tin-Functionalized Wood Biochar as a Sustainable Solid Catalyst for Glucose Isomerization in Biorefinery. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 4851-4860	8.3	44
487	Machine learning for the selection of carbon-based materials for tetracycline and sulfamethoxazole adsorption. *Chemical Engineering Journal*, **2021**, 406, 126782	14.7	44
486	Potassium doping increases biochar carbon sequestration potential by 45%, facilitating decoupling of carbon sequestration from soil improvement. *Scientific Reports*, **2019**, 9, 5514	4.9	43
485	A novel type of controlled low strength material derived from alum sludge and green materials. *Construction and Building Materials*, **2018**, 165, 792-800	6.7	43
484	Molecular and microbial insights towards understanding the anaerobic digestion of the wastewater from hydrothermal liquefaction of sewage sludge facilitated by granular activated carbon (GAC). *Environment International*, **2019**, 133, 105257	12.9	43
483	Residual leachability of CCA-contaminated soil after treatment with biodegradable chelating agents and lignite-derived humic substances. *Journal of Soils and Sediments*, **2013**, 13, 895-905	3.4	43

482	Thallium contamination, health risk assessment and source apportionment in common vegetables. *Science of the Total Environment*, **2020**, 703, 135547	10.2	43
481	Synthesis of functionalised biochar using red mud, lignin, and carbon dioxide as raw materials. *Chemical Engineering Journal*, **2019**, 361, 1597-1604	14.7	43
480	Recent advances in mitigating membrane biofouling using carbon-based materials. *Journal of Hazardous Materials*, **2020**, 382, 120976	12.8	43
479	Effects of individual and combined toxicity of bisphenol A, dibutyl phthalate and cadmium on oxidative stress and genotoxicity in HepG 2□cells. *Food and Chemical Toxicology*, **2017**, 105, 73-81	4.7	42
478	Pyrolysis-temperature depended quinone and carbonyl groups as the electron accepting sites in barley grass derived biochar. *Chemosphere*, **2019**, 232, 273-280	8.4	42
477	Occurrence and risk assessment of potentially toxic elements and typical organic pollutants in contaminated rural soils. *Science of the Total Environment*, **2018**, 630, 618-629	10.2	42
476	Review of biotreatment techniques for volatile sulfur compounds with an emphasis on dimethyl sulfide. *Process Biochemistry*, **2014**, 49, 1543-1554	4.8	42
475	Treatment of municipal solid waste incineration fly ash: State-of-the-art technologies and future perspectives. *Journal of Hazardous Materials*, **2021**, 411, 125132	12.8	42
474	Simultaneous removal of atrazine and copper using polyacrylic acid-functionalized magnetic ordered mesoporous carbon from water: adsorption mechanism. *Scientific Reports*, **2017**, 7, 43831	4.9	41
473	Sulfur-modified biochar as a soil amendment to stabilize mercury pollution: An accelerated simulation of long-term aging effects. *Environmental Pollution*, **2020**, 264, 114687	9.3	41
472	Empirical modeling of heavy metal extraction by EDDS from single-metal and multi-metal contaminated soils. *Chemosphere*, **2009**, 74, 301-7	8.4	41
471	The role of zinc in metakaolin-based geopolymers. *Cement and Concrete Research*, **2020**, 136, 106194	10.3	41
470	Struvite pyrolysate cycling technology assisted by thermal hydrolysis pretreatment to recover ammonium nitrogen from composting leachate. *Journal of Cleaner Production*, **2020**, 242, 118442	10.3	41
469	Synthesis of shape and structure-dependent hydroxyapatite nanostructures as a superior adsorbent for removal of U(VI). *Chemical Engineering Journal*, **2020**, 384, 123262	14.7	41
468	Microplastics in the soil-groundwater environment: Aging, migration, and co-transport of contaminants - A critical review. *Journal of Hazardous Materials*, **2021**, 419, 126455	12.8	41
467	Reduction of Bromate by Cobalt-Impregnated Biochar Fabricated via Pyrolysis of Lignin Using CO as a Reaction Medium. *ACS Applied Materials & Interfaces*, **2017**, 9, 13142-13150	9.5	40
466	Distribution and speciation of copper in rice (Oryza sativa L.) from mining-impacted paddy soil: Implications for copper uptake mechanisms. *Environment International*, **2019**, 126, 717-726	12.9	40
465	Removal of chlorinated organic solvents from hydraulic fracturing wastewater by bare and entrapped nanoscale zero-valent iron. *Chemosphere*, **2018**, 196, 9-17	8.4	40

464	Removal of U(VI) from nuclear mining effluent by porous hydroxyapatite: Evaluation on characteristics, mechanisms and performance. *Environmental Pollution*, **2019**, 254, 112891	9.3	40
463	Effects of solution chemistry on arsenic(V) removal by low-cost adsorbents. *Journal of Environmental Sciences*, **2013**, 25, 2291-8	6.4	40
462	Comparing chemical-enhanced washing and waste-based stabilisation approach for soil remediation. *Journal of Soils and Sediments*, **2014**, 14, 936-947	3.4	40
461	Development of ozonation and reactive electrochemical membrane coupled process: Enhanced tetracycline mineralization and toxicity reduction. *Chemical Engineering Journal*, **2020**, 383, 123149	14.7	40
460	Bioaccumulation of potentially toxic elements by submerged plants and biofilms: A critical review. *Environment International*, **2019**, 131, 105015	12.9	39
459	Interactions of chelating agents with Pb-goethite at the solid-liquid interface: Pb extraction and re-adsorption. *Chemosphere*, **2010**, 81, 415-21	8.4	39
458	Distribution and health risk assessment of potentially toxic elements in soils around coal industrial areas: A global meta-analysis. *Science of the Total Environment*, **2020**, 713, 135292	10.2	39
457	Towards practical application of gasification: a critical review from syngas and biochar perspectives. *Critical Reviews in Environmental Science and Technology*, **2018**, 48, 1165-1213	11.1	39
456	Cadmium stress in plants: A critical review of the effects, mechanisms, and tolerance strategies. *Critical Reviews in Environmental Science and Technology*, **2020**, 1-52	11.1	38
455	Soil contamination by potentially toxic elements and the associated human health risk in geo- and anthropogenic contaminated soils: A case study from the temperate region (Germany) and the arid region (Egypt). *Environmental Pollution*, **2020**, 262, 114312	9.3	38
454	Comparing biochar- and bentonite-supported Fe-based catalysts for selective degradation of antibiotics: Mechanisms and pathway. *Environmental Research*, **2020**, 183, 109156	7.9	38
453	Hyperaccumulation and transport mechanism of thallium and arsenic in brake ferns (Pteris vittata L.): A case study from mining area. *Journal of Hazardous Materials*, **2020**, 388, 121756	12.8	38
452	Mechanical, durability and environmental aspects of magnesium oxychloride cement boards incorporating waste wood. *Journal of Cleaner Production*, **2019**, 207, 391-399	10.3	38
451	Application of abscisic acid and 6-benzylaminopurine modulated morpho-physiological and antioxidative defense responses of tomato (Solanum lycopersicum L.) by minimizing cobalt uptake. *Chemosphere*, **2021**, 263, 128169	8.4	38
450	Steam activation of biochars facilitates kinetics and pH-resilience of sulfamethazine sorption. *Journal of Soils and Sediments*, **2016**, 16, 889-895	3.4	37
449	Technologies and perspectives for achieving carbon neutrality. *Innovation(China)*, **2021**, 2, 100180	17.8	37
448	Cadmium isotopes as tracers in environmental studies: A review. *Science of the Total Environment*, **2020**, 736, 139585	10.2	37
447	Current progress in degradation and removal methods of polybrominated diphenyl ethers from water and soil: A review. *Journal of Hazardous Materials*, **2021**, 403, 123674	12.8	37

446	In-situ biochar application conserves nutrients while simultaneously mitigating runoff and erosion of an Fe-oxide-enriched tropical soil. *Science of the Total Environment*, **2018**, 619-620, 665-671	10.2	37
445	Promoting food waste recycling in the commercial and industrial sector by extending the Theory of Planned Behaviour: A Hong Kong case study. *Journal of Cleaner Production*, **2018**, 204, 1034-1043	10.3	37
444	Effect of biochars pyrolyzed in N and CO, and feedstock on microbial community in metal(loid)s contaminated soils. *Environment International*, **2019**, 126, 791-801	12.9	36
443	A field study of bioavailable polycyclic aromatic hydrocarbons (PAHs) in sewage sludge and biochar amended soils. *Journal of Hazardous Materials*, **2018**, 349, 27-34	12.8	36
442	Phosphorus recovered from digestate by hydrothermal processes with struvite crystallization and its potential as a fertilizer. *Science of the Total Environment*, **2020**, 698, 134240	10.2	36
441	Novel CuCoO Composite Spinel with a Meso-Macroporous Nanosheet Structure for Sulfate Radical Formation and Benzophenone-4 Degradation: Interface Reaction, Degradation Pathway, and DFT Calculation. *ACS Applied Materials & Interfaces*, **2020**, 12, 20522-20535	9.5	36
440	Fe/Al (hydr)oxides engineered biochar for reducing phosphorus leaching from a fertile calcareous soil. *Journal of Cleaner Production*, **2021**, 279, 123877	10.3	36
439	Effects of magnesium ferrite biochar on the cadmium passivation in acidic soil and bioavailability for packoi (Brassica chinensis L.). *Journal of Environmental Management*, **2019**, 251, 109610	7.9	35
438	Facile synthesis of CuBTC and its graphene oxide composites as efficient adsorbents for CO2 capture. *Chemical Engineering Journal*, **2020**, 393, 124666	14.7	35
437	Quantitative source tracking of heavy metals contained in urban road deposited sediments. *Journal of Hazardous Materials*, **2020**, 393, 122362	12.8	35
436	Different alkaline minerals interacted with biomass carbon during pyrolysis: Which one improved biochar carbon sequestration?. *Journal of Cleaner Production*, **2020**, 255, 120162	10.3	35
435	Swine manure valorization for phosphorus and nitrogen recovery by catalytic-thermal hydrolysis and struvite crystallization. *Science of the Total Environment*, **2020**, 729, 138999	10.2	35
434	Metal(loid) immobilization in soils with biochars pyrolyzed in N and CO environments. *Science of the Total Environment*, **2018**, 630, 1103-1114	10.2	35
433	Mobile phosphorus stratification in sediments by aluminum immobilization. *Chemosphere*, **2017**, 186, 644-651	8.4	35
432	Biodiesel synthesis using chicken manure biochar and waste cooking oil. *Bioresource Technology*, **2017**, 244, 810-815	11	35
431	Short-term effects of rice straw biochar on sorption, emission, and transformation of soil NH⊞-N. *Environmental Science and Pollution Research*, **2015**, 22, 9184-92	5.1	35
430	Influence of EDDS-to-metal molar ratio, solution pH, and soil-to-solution ratio on metal extraction under EDDS deficiency. *Journal of Hazardous Materials*, **2010**, 178, 890-4	12.8	35
429	Recycling and regeneration of carbonaceous and porous materials through thermal or solvent treatment. *Chemical Engineering Journal*, **2019**, 364, 514-529	14.7	35

428	Sustainable management and recycling of food waste anaerobic digestate: A review. *Bioresource Technology*, **2021**, 341, 125915	11	35
427	CO 2 curing and fibre reinforcement for green recycling of contaminated wood into high-performance cement-bonded particleboards. *Journal of CO2 Utilization*, **2017**, 18, 107-116	7.6	34
426	N doped cobalt-carbon composite for reduction of p-nitrophenol and pendimethaline. *Journal of Alloys and Compounds*, **2017**, 703, 118-124	5.7	34
425	Risk evaluation of biochars produced from Cd-contaminated rice straw and optimization of its production for Cd removal. *Chemosphere*, **2019**, 233, 149-156	8.4	34
424	Adsorption of cadmium ions from aqueous solutions by activated carbon with oxygen-containing functional groups. *Chinese Journal of Chemical Engineering*, **2015**, 23, 1705-1711	3.2	34
423	Carbon dioxide capture in biochar produced from pine sawdust and paper mill sludge: Effect of porous structure and surface chemistry. *Science of the Total Environment*, **2020**, 739, 139845	10.2	34
422	Immobilization of hazardous municipal solid waste incineration fly ash by novel alternative binders derived from cementitious waste. *Journal of Hazardous Materials*, **2020**, 393, 122386	12.8	34
421	Applications of carbonaceous adsorbents in the remediation of polycyclic aromatic hydrocarbon-contaminated sediments: A review. *Journal of Cleaner Production*, **2020**, 255, 120263	10.3	34
420	Chemical transformation of food and beverage waste-derived fructose to hydroxymethylfurfural as a value-added product. *Catalysis Today*, **2018**, 314, 70-77	5.3	34
419	Modeling the transport of metals with rate-limited EDTA-promoted extraction and dissolution during EDTA-flushing of copper-contaminated soils. *Environmental Science & Technology*, **2007**, 41, 3660-6	10.3	34
418	Removal of Pb by EDTA-washing in the presence of hydrophobic organic contaminants or anionic surfactant. *Journal of Hazardous Materials*, **2008**, 155, 433-9	12.8	34
417	Critical Impact of Nitrogen Vacancies in Nonradical Carbocatalysis on Nitrogen-Doped Graphitic Biochar. *Environmental Science & Technology*, **2021**, 55, 7004-7014	10.3	34
416	Microplastics and environmental pollutants: Key interaction and toxicology in aquatic and soil environments. *Journal of Hazardous Materials*, **2022**, 422, 126843	12.8	34
415	Effects of low-alkalinity binders on stabilization/solidification of geogenic As-containing soils: Spectroscopic investigation and leaching tests. *Science of the Total Environment*, **2018**, 631-632, 1486-1494	10.2	33
414	Phthalate esters and organochlorine pesticides in agricultural soils and vegetables from fast-growing regions: a case study from eastern China. *Environmental Science and Pollution Research* , **2018**, 25, 34-42	5.1	33
413	Multimedia modeling of the PAH concentration and distribution in the Yangtze River Delta and human health risk assessment. *Science of the Total Environment*, **2019**, 647, 962-972	10.2	33
412	Exposure to nickel oxide nanoparticles insinuates physiological, ultrastructural and oxidative damage: A life cycle study on Eisenia fetida. *Environmental Pollution*, **2019**, 254, 113032	9.3	33
411	Remediation of an electroplating contaminated soil by EDTA flushing: chromium release and soil dissolution. *Journal of Soils and Sediments*, **2013**, 13, 354-363	3.4	33

410	Roles of the mineral constituents in sludge-derived biochar in persulfate activation for phenol degradation. *Journal of Hazardous Materials*, **2020**, 398, 122861	12.8	33
409	(Im)mobilization and speciation of lead under dynamic redox conditions in a contaminated soil amended with pine sawdust biochar. *Environment International*, **2020**, 135, 105376	12.9	33
408	Green synthesis of graphitic nanobiochar for the removal of emerging contaminants in aqueous media. *Science of the Total Environment*, **2020**, 706, 135725	10.2	33
407	Pyrolysis of FeCl3-pretreated spent coffee grounds using CO2 as a reaction medium. *Energy Conversion and Management*, **2016**, 127, 437-442	10.6	33
406	Use of CO curing to enhance the properties of cold bonded lightweight aggregates (CBLAs) produced with concrete slurry waste (CSW) and fine incineration bottom ash (IBA). *Journal of Hazardous Materials*, **2020**, 381, 120951	12.8	33
405	Microwave-assisted production of CO-activated biochar from sugarcane bagasse for electrochemical desalination. *Journal of Hazardous Materials*, **2020**, 383, 121192	12.8	33
404	Hydrothermal Liquefaction of Lignin to Aromatic Chemicals: Impact of Lignin Structure. *Industrial & Engineering Chemistry Research*, **2020**, 59, 16957-16969	3.9	32
403	Microbial insights into the biogeochemical features of thallium occurrence: A case study from polluted river sediments. *Science of the Total Environment*, **2020**, 739, 139957	10.2	32
402	Fabrication of L-cysteine stabilized ⊞FeOOH nanocomposite on porous hydrophilic biochar as an effective adsorbent for Pb removal. *Science of the Total Environment*, **2020**, 720, 137415	10.2	32
401	Requirements for effective photocatalytic oxidative desulfurization of a thiophene-containing solution using TiO2. *Journal of Environmental Chemical Engineering*, **2014**, 2, 1947-1955	6.8	32
400	Microwave-assisted depolymerization of various types of waste lignins over two-dimensional CuO/BCN catalysts. *Green Chemistry*, **2020**, 22, 725-736	10	32
399	Machine learning exploration of the critical factors for CO2 adsorption capacity on porous carbon materials at different pressures. *Journal of Cleaner Production*, **2020**, 273, 122915	10.3	32
398	Exfoliated Ni-Al LDH 2D nanosheets for intermediate temperature CO capture. *Journal of Hazardous Materials*, **2019**, 374, 365-371	12.8	31
397	N-doped porous carbon derived from polypyrrole for CO2 capture from humid flue gases. *Chemical Engineering Journal*, **2020**, 396, 125376	14.7	31
396	Effective Dispersion of MgO Nanostructure on Biochar Support as a Basic Catalyst for Glucose Isomerization. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 6990-7001	8.3	31
395	Effects of excessive impregnation, magnesium content, and pyrolysis temperature on MgO-coated watermelon rind biochar and its lead removal capacity. *Environmental Research*, **2020**, 183, 109152	7.9	31
394	Synthesis of zeolite A using sewage sludge ash for application in warm mix asphalt. *Journal of Cleaner Production*, **2018**, 172, 686-695	10.3	31
393	Influence of injection conditions on EDDS-flushing of metal-contaminated soil. *Journal of Hazardous Materials*, **2011**, 192, 667-75	12.8	31

392	Remediation of cadmium-contaminated soils using Brassica napus: Effect of nitrogen fertilizers. *Journal of Environmental Management*, **2020**, 255, 109885	7.9	31
391	Stabilisation/solidification of municipal solid waste incineration fly ash by phosphate-enhanced calcium aluminate cement. *Journal of Hazardous Materials*, **2021**, 408, 124404	12.8	31
390	Simultaneous degradation of p-arsanilic acid and inorganic arsenic removal using M-rGO/PS Fenton-like system under neutral conditions. *Journal of Hazardous Materials*, **2020**, 399, 123032	12.8	30
389	Sustainable impact of tartaric acid as electron shuttle on hierarchical iron-incorporated biochar. *Chemical Engineering Journal*, **2020**, 395, 125138	14.7	30
388	Recent advances in carbon nanotube sponge-based sorption technologies for mitigation of marine oil spills. *Journal of Colloid and Interface Science*, **2020**, 570, 411-422	9.3	30
387	Effects of red mud based passivator on the transformation of Cd fraction in acidic Cd-polluted paddy soil and Cd absorption in rice. *Science of the Total Environment*, **2018**, 640-641, 736-745	10.2	30
386	A system dynamics approach to determine construction waste disposal charge in Hong Kong. *Journal of Cleaner Production*, **2019**, 241, 118309	10.3	30
385	Source identification and ecological impact evaluation of PAHs in urban river sediments: A case study in Taiwan. *Chemosphere*, **2018**, 194, 666-674	8.4	30
384	Transformation of functional groups and environmentally persistent free radicals in hydrothermal carbonisation of lignin. *Bioresource Technology*, **2018**, 270, 223-229	11	30
383	Effects of carbon dioxide on pyrolysis of peat. *Energy*, **2017**, 120, 929-936	7.9	29
382	Valorization of concrete slurry waste (CSW) and fine incineration bottom ash (IBA) into cold bonded lightweight aggregates (CBLAs): Feasibility and influence of binder types. *Journal of Hazardous Materials*, **2019**, 368, 689-697	12.8	29
381	Photocatalytic reduction of CO2 to hydrocarbons using bio-templated porous TiO2 architectures under UV and visible light. *Chemical Engineering Journal*, **2018**, 347, 64-73	14.7	29
380	Optimizing xylose production from pinewood sawdust through dilute-phosphoric-acid hydrolysis by response surface methodology. *Journal of Cleaner Production*, **2018**, 178, 572-579	10.3	29
379	Zero-valent iron for the abatement of arsenate and selenate from flowback water of hydraulic fracturing. *Chemosphere*, **2017**, 167, 163-170	8.4	29
378	Phosphorus mobilization in lake sediments: Experimental evidence of strong control by iron and negligible influences of manganese redox reactions. *Environmental Pollution*, **2019**, 246, 472-481	9.3	29
377	Metal organic frameworks as potent treatment media for odorants and volatiles in air. *Environmental Research*, **2019**, 168, 336-356	7.9	29
376	Lignin valorization by bacterial genus Pseudomonas: State-of-the-art review and prospects. *Bioresource Technology*, **2021**, 320, 124412	11	29
375	Critical impacts of pyrolysis conditions and activation methods on application-oriented production of wood waste-derived biochar. *Bioresource Technology*, **2021**, 341, 125811	11	29

374	Fabrication of spherical biochar by a two-step thermal process from waste potato peel. *Science of the Total Environment*, **2018**, 626, 478-485	10.2	28
373	Environmental and technical feasibility study of upcycling wood waste into cement-bonded particleboard. *Construction and Building Materials*, **2018**, 173, 474-480	6.7	28
372	Synthesis of cobalt-impregnated carbon composite derived from a renewable resource: Characterization and catalytic performance evaluation. *Science of the Total Environment*, **2018**, 612, 103-110	10.2	28
371	Significance of metal exchange in EDDS-flushing column experiments. *Chemosphere*, **2011**, 83, 7-13	8.4	28
370	Prussian Blue Analogue-derived co/fe bimetallic nanoparticles immobilized on S/N-doped carbon sheet as a magnetic heterogeneous catalyst for activating peroxymonosulfate in water. *Chemosphere*, **2020**, 244, 125444	8.4	28
369	A critical review on the principles, applications, and challenges of waste-to-hydrogen technologies. *Renewable and Sustainable Energy Reviews*, **2020**, 134, 110365	16.2	28
368	Bacterial-induced mineralization (BIM) for soil solidification and heavy metal stabilization: A critical review. *Science of the Total Environment*, **2020**, 746, 140967	10.2	28
367	Comparative investigation of homogeneous and heterogeneous Br□sted base catalysts for the isomerization of glucose to fructose in aqueous media. *Applied Catalysis B: Environmental*, **2020**, 261, 118126	21.8	28
366	How energy service companies moderate the impact of industrialization and urbanization on carbon emissions in China?. *Science of the Total Environment*, **2021**, 751, 141610	10.2	28
365	High contamination risks of thallium and associated metal(loid)s in fluvial sediments from a steel-making area and implications for environmental management. *Journal of Environmental Management*, **2019**, 250, 109513	7.9	27
364	Toxicity characteristic leaching procedure over- or under-estimates leachability of lead in phosphate-amended contaminated soils. *Chemosphere*, **2015**, 138, 744-50	8.4	27
363	Adsorption of As(V) and Ni(II) by Fe-Biochar composite fabricated by co-pyrolysis of orange peel and red mud. *Environmental Research*, **2020**, 188, 109809	7.9	27
362	Constructing a robust chrome-free leather tanned by biomass-derived polyaldehyde via crosslinking with chitosan derivatives. *Journal of Hazardous Materials*, **2020**, 396, 122771	12.8	27
361	Effect of Solvent, Role of Formic Acid and Rh/C Catalyst for the Efficient Liquefaction of Lignin. *ChemCatChem*, **2019**, 11, 4604-4616	5.2	27
360	Modeling Cadmium Transport in Soils Using Sequential Extraction, Batch, and Miscible Displacement Experiments. *Soil Science Society of America Journal*, **2007**, 71, 674-681	2.5	27
359	Adsorption of acetone and cyclohexane onto CO activated hydrochars. *Chemosphere*, **2020**, 245, 125664	8.4	27
358	□ay induced formation of oxygen vacancies and Ti defects in anatase TiO for efficient photocatalytic organic pollutant degradation. *Science of the Total Environment*, **2020**, 747, 141533	10.2	27
357	Evolution of redox activity of biochar during interaction with soil minerals: Effect on the electron donating and mediating capacities for Cr(VI) reduction. *Journal of Hazardous Materials*, **2021**, 414, 125483	12.8	27

356	Thio-groups decorated covalent triazine frameworks for selective mercury removal. *Journal of Hazardous Materials*, **2021**, 403, 123702	12.8	27
355	Emerging Thallium Pollution in China and Source Tracing by Thallium Isotopes. *Environmental Science & Technology*, **2018**, 52, 11977-11979	10.3	27
354	Characteristics of denitrification genes and relevant enzyme activities in heavy-metal polluted soils remediated by biochar and compost. *Science of the Total Environment*, **2020**, 739, 139987	10.2	26
353	Critical insight and indication on particle size effects towards uranium release from uranium mill tailings: Geochemical and mineralogical aspects. *Chemosphere*, **2020**, 250, 126315	8.4	26
352	Atrazine contamination in agricultural soils from the Yangtze River Delta of China and associated health risks. *Environmental Geochemistry and Health*, **2017**, 39, 369-378	4.7	26
351	Boron supply alleviates cadmium toxicity in rice (Oryza sativa L.) by enhancing cadmium adsorption on cell wall and triggering antioxidant defense system in roots. *Chemosphere*, **2021**, 266, 128938	8.4	26
350	Microscopic mechanism about the selective adsorption of Cr(VI) from salt solution on O-rich and N-rich biochars. *Journal of Hazardous Materials*, **2021**, 404, 124162	12.8	26
349	Combined toxicity of endosulfan and phenanthrene mixtures and induced molecular changes in adult Zebrafish (Danio rerio). *Chemosphere*, **2018**, 194, 30-41	8.4	26
348	Transformation of arsenic during realgar tailings stabilization using ferrous sulfate in a pilot-scale treatment. *Science of the Total Environment*, **2019**, 668, 32-39	10.2	25
347	Peak Chromium Pollution in Summer and Winter Caused by High Mobility of Chromium in Sediment of a Eutrophic Lake: In Situ Evidence from High Spatiotemporal Sampling. *Environmental Science & Technology*, **2019**, 53, 4755-4764	10.3	25
346	Evaluation of the BCR sequential extraction scheme for trace metal fractionation of alkaline municipal solid waste incineration fly ash. *Chemosphere*, **2020**, 249, 126115	8.4	25
345	Selection criteria for oxidation method in total organic carbon measurement. *Chemosphere*, **2018**, 199, 453-458	8.4	25
344	Participation of soil active components in the reduction of Cr(VI) by biochar: Differing effects of iron mineral alone and its combination with organic acid. *Journal of Hazardous Materials*, **2020**, 384, 121455	12.8	25
343	Selective hydrogenation of furfural to tetrahydrofurfuryl alcohol over a Rh-loaded carbon catalyst in aqueous solution under mild conditions. *Sustainable Energy and Fuels*, **2020**, 4, 293-301	5.8	25
342	Polychlorinated biphenyls in agricultural soils from the Yangtze River Delta of China: Regional contamination characteristics, combined ecological effects and human health risks. *Chemosphere*, **2016**, 163, 422-428	8.4	25
341	Effect of coexisting Al(III) ions on Pb(II) sorption on biochars: Role of pH buffer and competition. *Chemosphere*, **2016**, 161, 438-445	8.4	25
340	Suppressed formation of polycyclic aromatic hydrocarbons (PAHs) during pyrolytic production of Fe-enriched composite biochar. *Journal of Hazardous Materials*, **2020**, 382, 121033	12.8	25
339	A review on the valorisation of food waste as a nutrient source and soil amendment. *Environmental Pollution*, **2021**, 272, 115985	9.3	25

338	Design and fabrication of exfoliated Mg/Al layered double hydroxides on biochar support. *Journal of Cleaner Production*, **2021**, 289, 125142	10.3	25
337	Sustainable improvement of soil health utilizing biochar and arbuscular mycorrhizal fungi: A review. *Environmental Pollution*, **2021**, 268, 115549	9.3	25
336	Thermochemical conversion of cobalt-loaded spent coffee grounds for production of energy resource and environmental catalyst. *Bioresource Technology*, **2018**, 270, 346-351	11	25
335	Novel M (Mg/Ni/Cu)-Al-CO layered double hydroxides synthesized by aqueous miscible organic solvent treatment (AMOST) method for CO capture. *Journal of Hazardous Materials*, **2019**, 373, 285-293	12.8	24
334	The roles of humic substances in the interactions of phenanthrene and heavy metals on the bentonite surface. *Journal of Soils and Sediments*, **2015**, 15, 1463-1472	3.4	24
333	Continuous leaching modifies the surface properties and metal(loid) sorption of sludge-derived biochar. *Science of the Total Environment*, **2018**, 625, 731-737	10.2	24
332	Interactions of food waste compost with metals and metal-chelant complexes during soil remediation. *Journal of Cleaner Production*, **2018**, 192, 199-206	10.3	24
331	Fabrication of a novel magnetic carbon nanocomposite adsorbent via pyrolysis of sugar. *Chemosphere*, **2016**, 163, 305-312	8.4	24
330	Role of Inherent Inorganic Constituents in SO Sorption Ability of Biochars Derived from Three Biomass Wastes. *Environmental Science & Technology*, **2016**, 50, 12957-12965	10.3	24
329	High-efficiency and low-carbon remediation of zinc contaminated sludge by magnesium oxysulfate cement. *Journal of Hazardous Materials*, **2021**, 408, 124486	12.8	24
328	Acidic seawater improved 5-hydroxymethylfurfural yield from sugarcane bagasse under microwave hydrothermal liquefaction. *Environmental Research*, **2020**, 184, 109340	7.9	23
327	Controlling generation of benzenes and polycyclic aromatic hydrocarbons in thermolysis of polyvinyl chloride in CO2. *Energy Conversion and Management*, **2018**, 164, 453-459	10.6	23
326	Soil Washing Enhanced by Humic Substances and Biodegradable Chelating Agents. *Soil and Sediment Contamination*, **2014**, 23, 599-613	3.2	23
325	Adsorption of Methylene Blue and Phenol by Wood Waste Derived Activated Carbon. *Journal of Environmental Engineering, ASCE*, **2008**, 134, 338-345	2	23
324	Application of iron/aluminum bimetallic nanoparticle system for chromium-contaminated groundwater remediation. *Chemosphere*, **2020**, 256, 127158	8.4	23
323	A review on nitrogen transformation in hydrochar during hydrothermal carbonization of biomass containing nitrogen. *Science of the Total Environment*, **2021**, 756, 143679	10.2	23
322	Insights into the subsurface transport of As(V) and Se(VI) in produced water from hydraulic fracturing using soil samples from Qingshankou Formation, Songliao Basin, China. *Environmental Pollution*, **2017**, 223, 449-456	9.3	22
321	A novel process for obtaining high quality cellulose acetate from green landscaping waste. *Journal of Cleaner Production*, **2018**, 176, 338-347	10.3	22

320	Effect of immobilizing reagents on soil Cd and Pb lability under freeze-thaw cycles: Implications for sustainable agricultural management in seasonally frozen land. *Environment International*, **2020**, 144, 106040	12.9	22
319	Engineered biochar composite fabricated from red mud and lipid waste and synthesis of biodiesel using the composite. *Journal of Hazardous Materials*, **2019**, 366, 293-300	12.8	22
318	Simultaneous oxidation and adsorption of arsenic by one-step fabrication of alum sludge and graphitic carbon nitride (g-CN). *Journal of Hazardous Materials*, **2020**, 383, 121138	12.8	22
317	Chemicals from lignocellulosic biomass: A critical comparison between biochemical, microwave and thermochemical conversion methods. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 1479-1532	11.1	22
316	Mapping soil pollution by using drone image recognition and machine learning at an arsenic-contaminated agricultural field. *Environmental Pollution*, **2021**, 270, 116281	9.3	22
315	High cadmium pollution from sediments in a eutrophic lake caused by dissolved organic matter complexation and reduction of manganese oxide. *Water Research*, **2021**, 190, 116711	12.5	22
314	Emergent thallium exposure from uranium mill tailings. *Journal of Hazardous Materials*, **2021**, 407, 124402	12.8	22
313	Efficient succinic acid production using a biochar-treated textile waste hydrolysate in an in situ fibrous bed bioreactor. *Biochemical Engineering Journal*, **2019**, 149, 107249	4.2	21
312	Biochar Effects on Rice Paddy: Meta-analysis. *Advances in Agronomy*, **2018**, 1-32	7.7	21
311	Planar optode: A two-dimensional imaging technique for studying spatial-temporal dynamics of solutes in sediment and soil. *Earth-Science Reviews*, **2019**, 197, 102916	10.2	21
310	Co-pyrolysis of paper mill sludge and spend coffee ground using CO2 as reaction medium. *Journal of CO2 Utilization*, **2017**, 21, 572-579	7.6	21
309	Metal immobilization by sludge-derived biochar: roles of mineral oxides and carbonized organic compartment. *Environmental Geochemistry and Health*, **2017**, 39, 379-389	4.7	21
308	Reduction of Nitrate in Groundwater by Fe(0)/Magnetite Nanoparticles Entrapped in Ca-Alginate Beads. *Water, Air, and Soil Pollution*, **2015**, 226, 1	2.6	21
307	Utilizing acid mine drainage sludge and coal fly ash for phosphate removal from dairy wastewater. *Environmental Technology (United Kingdom)*, **2013**, 34, 3177-82	2.6	21
306	On the use of limestone calcined clay cement (LC3) in high-strength strain-hardening cement-based composites (HS-SHCC). *Cement and Concrete Research*, **2021**, 144, 106421	10.3	21
305	Feasibility of wet-extraction of phosphorus from incinerated sewage sludge ash (ISSA) for phosphate fertilizer production: A critical review. *Critical Reviews in Environmental Science and Technology*, **2021**, 51, 939-971	11.1	21
304	An integrated approach for simultaneous immobilization of lead in both contaminated soil and groundwater: Laboratory test and numerical modeling. *Journal of Hazardous Materials*, **2018**, 342, 107-113	12.8	21
303	Contrasting Roles of Maleic Acid in Controlling Kinetics and Selectivity of Sn(IV)- and Cr(III)-Catalyzed Hydroxymethylfurfural Synthesis. *ACS Sustainable Chemistry and Engineering*, **2018**, 6, 14264-14274	8.3	21

302	Risk mitigation by waste-based permeable reactive barriers for groundwater pollution control at e-waste recycling sites. *Environmental Geochemistry and Health*, **2017**, 39, 75-88	4.7	20
301	Enhanced bioremediation of TCE-contaminated groundwater using gamma poly-glutamic acid as the primary substrate. *Journal of Cleaner Production*, **2018**, 178, 108-118	10.3	20
300	Sustainable conversion of contaminated dredged river sediment into eco-friendly foamed concrete. *Journal of Cleaner Production*, **2020**, 252, 119799	10.3	20
299	Effects of microorganism-mediated inoculants on humification processes and phosphorus dynamics during the aerobic composting of swine manure. *Journal of Hazardous Materials*, **2021**, 416, 125738	12.8	20
298	Impacts of different activation processes on the carbon stability of biochar for oxidation resistance. *Bioresource Technology*, **2021**, 338, 125555	11	20
297	Sustainable biochar/MgFeO adsorbent for levofloxacin removal: Adsorption performances and mechanisms. *Bioresource Technology*, **2021**, 340, 125698	11	20
296	Current progress in treatment techniques of triclosan from wastewater: A review. *Science of the Total Environment*, **2019**, 696, 133990	10.2	19
295	Functionalized zeolite-solvent catalytic systems for microwave-assisted dehydration of fructose to 5-hydroxymethylfurfural. *Microporous and Mesoporous Materials*, **2019**, 284, 43-52	5.3	19
294	Simultaneous removal of iron and manganese from acid mine drainage by acclimated bacteria. *Journal of Hazardous Materials*, **2020**, 396, 122631	12.8	19
293	Molecular and microbial insights towards understanding the effects of hydrochar on methane emission from paddy soil. *Science of the Total Environment*, **2020**, 714, 136769	10.2	19
292	Effects of lead mineralogy on soil washing enhanced by ferric salts as extracting and oxidizing agents. *Chemosphere*, **2017**, 185, 501-508	8.4	19
291	Fate of metals before and after chemical extraction of incinerated sewage sludge ash. *Chemosphere*, **2017**, 186, 350-359	8.4	19
290	Activation of persulfate by stability-enhanced magnetic graphene oxide for the removal of 2,4-dichlorophenol. *Science of the Total Environment*, **2020**, 707, 135656	10.2	19
289	Effects of selenium on the uptake of toxic trace elements by crop plants: A review. *Critical Reviews in Environmental Science and Technology*, **2020**, 1-36	11.1	19
288	Quantitative isotopic fingerprinting of thallium associated with potentially toxic elements (PTEs) in fluvial sediment cores with multiple anthropogenic sources. *Environmental Pollution*, **2020**, 266, 115252	9.3	19
287	Roles of Biochar and CO2 Curing in Sustainable Magnesia Cement-Based Composites. *ACS Sustainable Chemistry and Engineering*, **2021**, 9, 8603-8610	8.3	19
286	Adsorption characteristics of cesium on the clay minerals: Structural change under wetting and drying condition. *Geoderma*, **2019**, 340, 49-54	6.7	19
285	Spatial distribution and molecular speciation of copper in indigenous plants from contaminated mine sites: Implication for phytostabilization. *Journal of Hazardous Materials*, **2020**, 381, 121208	12.8	19

284	Efficacy of green alternatives and carbon dioxide curing in reactive magnesia cement-bonded particleboards. *Journal of Cleaner Production*, **2020**, 258, 120997	10.3	18
283	Contamination characteristics and source apportionment of methylated PAHs in agricultural soils from Yangtze River Delta, China. *Environmental Pollution*, **2017**, 230, 927-935	9.3	18
282	Mixture Design and Reaction Sequence for Recycling Construction Wood Waste into Rapid-Shaping Magnesia Phosphate Cement Particleboard. *Industrial & Engineering Chemistry Research*, **2017**, 56, 6645-6654	3.9	18
281	Persistent thallium contamination in river sediments, source apportionment and environmental implications. *Ecotoxicology and Environmental Safety*, **2020**, 202, 110874	7	18
280	Synergistic effects of Pt-embedded, MIL-53-derived catalysts (Pt@Al2O3) and NaBH4 for water-mediated hydrogenolysis of biomass-derived furfural to 1,5-pentanediol at near-ambient temperature. *Journal of Catalysis*, **2020**, 390, 46-56	7.3	18
279	Seasonal antimony pollution caused by high mobility of antimony in sediments: In situ evidence and mechanical interpretation. *Journal of Hazardous Materials*, **2019**, 367, 427-436	12.8	18
278	Mitigation of acidogenic product inhibition and elevated mass transfer by biochar during anaerobic digestion of food waste. *Bioresource Technology*, **2021**, 338, 125531	11	18
277	Contrasting abiotic As(III) immobilization by undissolved and dissolved fractions of biochar in Ca-rich groundwater under anoxic conditions. *Water Research*, **2020**, 183, 116106	12.5	17
276	Sorption, mobility, and bioavailability of PBDEs in the agricultural soils: Roles of co-existing metals, dissolved organic matter, and fertilizers. *Science of the Total Environment*, **2018**, 619-620, 1153-1162	10.2	17
275	Successful control of internal phosphorus loading after sediment dredging for 6years: A field assessment using high-resolution sampling techniques. *Science of the Total Environment*, **2018**, 616-617, 927-936	10.2	17
274	Using a high biomass plant Pennisetum hydridum to phyto-treat fresh municipal sewage sludge. *Bioresource Technology*, **2016**, 217, 252-6	11	17
273	Contamination and congener profiles of polychlorinated biphenyls from different agricultural top soils in a county of the Tailake Region, China. *Journal of Hazardous Materials*, **2010**, 176, 1027-31	12.8	17
272	Improving the humification and phosphorus flow during swine manure composting: A trial for enhancing the beneficial applications of hazardous biowastes. *Journal of Hazardous Materials*, **2021**, 425, 127906	12.8	17
271	Health risks of metal(loid)s in maize (Zea mays L.) in an artisanal zinc smelting zone and source fingerprinting by lead isotope. *Science of the Total Environment*, **2020**, 742, 140321	10.2	17
270	Valorization of humins from food waste biorefinery for synthesis of biochar-supported Lewis acid catalysts. *Science of the Total Environment*, **2021**, 775, 145851	10.2	17
269	Hydrothermal Carbonization for Hydrochar Production and Its Application **2019**, 275-294		17
268	Geochemical fractionation of thallium in contaminated soils near a large-scale Hg-Tl mineralised area. *Chemosphere*, **2020**, 239, 124775	8.4	17
267	Performance indicators for a holistic evaluation of catalyst-based degradation-A case study of selected pharmaceuticals and personal care products (PPCPs). *Journal of Hazardous Materials*, **2021**, 402, 123460	12.8	17

266	Metal-organic framework for the extraction and detection of pesticides from food commodities. *Comprehensive Reviews in Food Science and Food Safety*, **2021**, 20, 1009-1035	16.4	17
265	Manganese ferrite modified biochar from vinasse for enhanced adsorption of levofloxacin: Effects and mechanisms. *Environmental Pollution*, **2021**, 272, 115968	9.3	17
264	Different Influences of Bacterial Communities on Fe (III) Reduction and Phosphorus Availability in Sediments of the Cyanobacteria- and Macrophyte-Dominated Zones. *Frontiers in Microbiology*, **2018**, 9, 2636	5.7	17
263	Superior fenton-like degradation of tetracycline by iron loaded graphitic carbon derived from microplastics: Synthesis, catalytic performance, and mechanism. *Separation and Purification Technology*, **2021**, 270, 118773	8.3	17
262	Distribution, behaviour, bioavailability and remediation of poly- and per-fluoroalkyl substances (PFAS) in solid biowastes and biowaste-treated soil. *Environment International*, **2021**, 155, 106600	12.9	17
261	Effects and mechanisms of mineral amendment on thallium mobility in highly contaminated soils. *Journal of Environmental Management*, **2020**, 262, 110251	7.9	16
260	The roles of suspended solids in persulfate/Fe2+ treatment of hydraulic fracturing wastewater: Synergistic interplay of inherent wastewater components. *Chemical Engineering Journal*, **2020**, 388, 124243	14.7	16
259	Development of a two-stage biotransformation system for mercury-contaminated soil remediation. *Chemosphere*, **2018**, 200, 266-273	8.4	16
258	Interactions of CeO nanoparticles with natural colloids and electrolytes impact their aggregation kinetics and colloidal stability. *Journal of Hazardous Materials*, **2020**, 386, 121973	12.8	16
257	Comparison of the Hydraulic Fracturing Water Cycle in China and North America: A Critical Review. *Environmental Science & Technology*, **2021**, 55, 7167-7185	10.3	16
256	Streptomyces pactum addition to contaminated mining soils improved soil quality and enhanced metals phytoextraction by wheat in a green remediation trial. *Chemosphere*, **2021**, 273, 129692	8.4	16
255	Supercritical Carbon Dioxide Extraction of Value-Added Products and Thermochemical Synthesis of Platform Chemicals from Food Waste. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 2821-2829	8.3	16
254	Organic Acid-Regulated Lewis Acidity for Selective Catalytic Hydroxymethylfurfural Production from Rice Waste: An Experimental□Computational Study. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 1437-1446	8.3	16
253	Efficacy and limitations of low-cost adsorbents for in-situ stabilisation of contaminated marine sediment. *Journal of Cleaner Production*, **2019**, 212, 420-427	10.3	16
252	Effect of biochar aging and co-existence of diethyl phthalate on the mono-sorption of cadmium and zinc to biochar-treated soils. *Journal of Hazardous Materials*, **2021**, 408, 124850	12.8	16
251	Tailored design of food waste hydrochar for efficient adsorption and catalytic degradation of refractory organic contaminant. *Journal of Cleaner Production*, **2021**, 310, 127482	10.3	16
250	Designing novel magnesium oxysulfate cement for stabilization/solidification of municipal solid waste incineration fly ash. *Journal of Hazardous Materials*, **2022**, 423, 127025	12.8	16
249	Effects of Zn in sludge-derived biochar on Cd immobilization and biological uptake by lettuce. *Science of the Total Environment*, **2020**, 714, 136721	10.2	15

248	Enhancement of syngas for H2 production via catalytic pyrolysis of orange peel using CO2 and bauxite residue. *Applied Energy*, **2019**, 254, 113803	10.7	15
247	Evaluating the environmental impacts of stabilization and solidification technologies for managing hazardous wastes through life cycle assessment: A case study of Hong Kong. *Environment International*, **2020**, 145, 106139	12.9	15
246	Investigation of cold bonded lightweight aggregates produced with incineration sewage sludge ash (ISSA) and cementitious waste. *Journal of Cleaner Production*, **2020**, 251, 119709	10.3	15
245	Sustainable stabilization/solidification of arsenic-containing soil by blast slag and cement blends. *Chemosphere*, **2021**, 271, 129868	8.4	15
244	Preparation of nitrogen-doped Cu-biochar and its application into catalytic reduction of p-nitrophenol. *Environmental Geochemistry and Health*, **2019**, 41, 1729-1737	4.7	15
243	Tuneable functionalities in layered double hydroxide catalysts for thermochemical conversion of biomass-derived glucose to fructose. *Chemical Engineering Journal*, **2020**, 383, 122914	14.7	15
242	Current progress in electrochemical anodic-oxidation of pharmaceuticals: Mechanisms, influencing factors, and new technique. *Journal of Hazardous Materials*, **2021**, 418, 126313	12.8	15
241	Pyrolysis of aquatic carbohydrates using CO2 as reactive gas medium: A case study of chitin. *Energy*, **2019**, 177, 136-143	7.9	14
240	Highly effective degradation of sodium dodecylbenzene sulphonate and synthetic greywater by Fenton-like reaction over zerovalent iron-based catalyst. *Environmental Technology (United Kingdom)*, **2015**, 36, 1423-32	2.6	14
239	Processed Bamboo as a Novel Formaldehyde-Free High-Performance Furniture Biocomposite. *ACS Applied Materials & Interfaces*, **2020**, 12, 30824-30832	9.5	14
238	Simultaneous application of oxalic acid and dithionite for enhanced extraction of arsenic bound to amorphous and crystalline iron oxides. *Journal of Hazardous Materials*, **2018**, 354, 91-98	12.8	14
237	The utilization of zinc recovered from alkaline battery waste as metal precursor in the synthesis of metal-organic framework. *Journal of Cleaner Production*, **2018**, 199, 995-1006	10.3	14
236	Photo-Fenton abatement of aqueous organics using metal-organic frameworks: An advancement from benchmark zeolite. *Science of the Total Environment*, **2018**, 644, 389-397	10.2	14
235	First observation of labile arsenic stratification in aluminum sulfate-amended sediments using high resolution Zr-oxide DGT. *Science of the Total Environment*, **2017**, 609, 304-310	10.2	14
234	Acid Mine Drainage Treatment Assisted by Lignite-Derived Humic Substances. *Water, Air, and Soil Pollution*, **2013**, 224, 1	2.6	14
233	New insights into CO2 sorption on biochar/Fe oxyhydroxide composites: Kinetics, mechanisms, and in situ characterization. *Chemical Engineering Journal*, **2020**, 384, 123289	14.7	14
232	Synergistic utilization of inherent halides and alcohols in hydraulic fracturing wastewater for radical-based treatment: A case study of di-(2-ethylhexyl) phthalate removal. *Journal of Hazardous Materials*, **2020**, 384, 121321	12.8	14
231	Metal organic framework-derived 3D nanostructured cobalt oxide as an effective catalyst for soot oxidation. *Journal of Colloid and Interface Science*, **2020**, 561, 83-92	9.3	14

230	Effects of aging and weathering on immobilization of trace metals/metalloids in soils amended with biochar. *Environmental Sciences: Processes and Impacts*, **2020**, 22, 1790-1808	4.3	14
229	Stabilization of dissolvable biochar by soil minerals: Release reduction and organo-mineral complexes formation. *Journal of Hazardous Materials*, **2021**, 412, 125213	12.8	14
228	Biochar composites: Emerging trends, field successes and sustainability implications. *Soil Use and Management*, **2022**,	3.1	14
227	Transforming waterworks sludge into controlled low-strength material: Bench-scale optimization and field test validation. *Journal of Environmental Management*, **2019**, 232, 254-263	7.9	14
226	Unraveling iron speciation on Fe-biochar with distinct arsenic removal mechanisms and depth distributions of As and Fe. *Chemical Engineering Journal*, **2021**, 425, 131489	14.7	14
225	Transformation and fate of thallium and accompanying metal(loid)s in paddy soils and rice: A case study from a large-scale industrial area in China. *Journal of Hazardous Materials*, **2022**, 423, 126997	12.8	14
224	Sustainability likelihood of remediation options for metal-contaminated soil/sediment. *Chemosphere*, **2017**, 174, 421-427	8.4	13
223	Transformation of heavy metal fraction distribution in contaminated river sediment treated by chemical-enhanced washing. *Journal of Soils and Sediments*, **2017**, 17, 1208-1218	3.4	13
222	Catalytic thermolysis of oak sawdust using Fe-based catalyst and CO2. *Journal of CO2 Utilization*, **2019**, 32, 269-275	7.6	13
221	Valorization of biomass from plant microbial fuel cells into levulinic acid by using liquid/solid acids and green solvents. *Journal of Cleaner Production*, **2020**, 260, 121097	10.3	13
220	Novel ball-milled biochar-vermiculite nanocomposites effectively adsorb aqueous As(V). *Chemosphere*, **2020**, 260, 127566	8.4	13
219	Catalytically active interfaces in titania nanorod-supported copper catalysts for CO oxidation. *Nano Research*, **2020**, 13, 533-542	10	13
218	One step fabrication of carbon supported cobalt pentlandite (Co9S8) via the thermolysis of lignin and Co3O4. *Journal of CO2 Utilization*, **2018**, 27, 196-203	7.6	13
217	Catalytic consequences of charge-balancing cations in zeolite during photo-Fenton oxidation of formaldehyde in alkaline conditions. *Separation and Purification Technology*, **2014**, 125, 269-274	8.3	13
216	Conceptual framework and mathematical model for the transport of metal-chelant complexes during in situ soil remediation. *Chemosphere*, **2013**, 91, 1281-8	8.4	13
215	Conceptual model and sensitivity analysis for simulating the extraction kinetics of soil washing. *Journal of Soils and Sediments*, **2011**, 11, 1221-1233	3.4	13
214	Catalytic co-hydrothermal carbonization of food waste digestate and yard waste for energy application and nutrient recovery. *Bioresource Technology*, **2022**, 344, 126395	11	13
213	Hydrothermal carbonization and liquefaction for sustainable production of hydrochar and aromatics. *Renewable and Sustainable Energy Reviews*, **2021**, 152, 111722	16.2	13

212	Roles of biochar in cement-based stabilization/solidification of municipal solid waste incineration fly ash. *Chemical Engineering Journal*, **2022**, 430, 132972	14.7	13
211	Stabilization treatment of arsenic-alkali residue (AAR): Effect of the coexisting soluble carbonate on arsenic stabilization. *Environment International*, **2020**, 135, 105406	12.9	13
210	Release of toxic elements in fishpond sediments under dynamic redox conditions: Assessing the potential environmental risk for a safe management of fisheries systems and degraded waterlogged sediments. *Journal of Environmental Management*, **2020**, 255, 109778	7.9	13
209	Biodiesel Conversion via Thermal Assisted in-Situ Transesterification of Bovine Fat Using Dimethyl Carbonate as an Acyl Acceptor. *ACS Sustainable Chemistry and Engineering*, **2016**, 4, 5600-5605	8.3	13
208	Insights into the adsorption of pharmaceuticals and personal care products (PPCPs) on biochar and activated carbon with the aid of machine learning. *Journal of Hazardous Materials*, **2022**, 423, 127060	12.8	13
207	The mechanism of supplementary cementitious materials enhancing the water resistance of magnesium oxychloride cement (MOC): A comparison between pulverized fuel ash and incinerated sewage sludge ash. *Cement and Concrete Composites*, **2020**, 109, 103562	8.6	12
206	Contribution of pyrolytic gas medium to the fabrication of co-impregnated biochar. *Journal of CO2 Utilization*, **2018**, 26, 476-486	7.6	12
205	Dynamic leaching behavior of geogenic As in soils after cement-based stabilization/solidification. *Environmental Science and Pollution Research*, **2017**, 24, 27822-27832	5.1	12
204	Impact of natural and calcined starfish (Asterina pectinifera) on the stabilization of Pb, Zn and As in contaminated agricultural soil. *Environmental Geochemistry and Health*, **2017**, 39, 431-441	4.7	12
203	Challenges and opportunities in sustainable management of microplastics and nanoplastics in the environment. *Environmental Research*, **2021**, 207, 112179	7.9	12
202	Survival strategies and dominant phylotypes of maize-rhizosphere microorganisms under metal(loid)s contamination. *Science of the Total Environment*, **2021**, 774, 145143	10.2	12
201	Selective degradation and oxidation of hemicellulose in corncob to oligosaccharides: From biomass into masking agent for sustainable leather tanning. *Journal of Hazardous Materials*, **2021**, 413, 125425	12.8	12
200	Sustainable production of lignin micro-/nano-particles (LMNPs) from biomass: Influence of the type of biomass on their self-assembly capability and physicochemical properties. *Journal of Hazardous Materials*, **2021**, 403, 123701	12.8	12
199	Metal chloride-loaded biochar for phosphorus recovery: Noteworthy roles of inherent minerals in precursor. *Chemosphere*, **2021**, 266, 128991	8.4	12
198	Responses of ammonia-oxidizing microorganisms to biochar and compost amendments of heavy metals-polluted soil. *Journal of Environmental Sciences*, **2021**, 102, 263-272	6.4	12
197	Enhancing anti-microbial properties of wood-plastic composites produced from timber and plastic wastes. *Environmental Science and Pollution Research*, **2017**, 24, 12227-12237	5.1	11
196	River water irrigation with heavy metal load influences soil biological activities and risk factors. *Journal of Environmental Management*, **2020**, 270, 110517	7.9	11
195	Application of enhanced bioreduction for hexavalent chromium-polluted groundwater cleanup: Microcosm and microbial diversity studies. *Environmental Research*, **2020**, 184, 109296	7.9	11

194	Three-dimensional spatial variability of arsenic-containing soil from geogenic source in Hong Kong: Implications on sampling strategies. *Science of the Total Environment*, **2018**, 633, 836-847	10.2	11
193	Reactivation of phosphorus in sediments after calcium-rich mineral capping: Implication for revising the laboratory testing scheme for immobilization efficiency. *Chemical Engineering Journal*, **2018**, 331, 720-728	14.7	11
192	Coupling carbon dioxide and magnetite for the enhanced thermolysis of polyvinyl chloride. *Science of the Total Environment*, **2019**, 696, 133951	10.2	11
191	Effects of elevated CO on the phytoremediation efficiency of Noccaea caerulescens. *Environmental Pollution*, **2019**, 255, 113169	9.3	11
190	Ball-milled, solvent-free Sn-functionalisation of wood waste biochar for sugar conversion in food waste valorisation. *Journal of Cleaner Production*, **2020**, 268, 122300	10.3	11
189	Singlet oxygen mediated the selective removal of oxytetracycline in C/FeC/Fe system as compared to chloramphenicol. *Environment International*, **2020**, 143, 105899	12.9	11
188	Recyclable aqueous metal adsorbent: Synthesis and Cu(II) sorption characteristics of ternary nanocomposites of FeO nanoparticles@graphene-poly-N-phenylglycine nanofibers. *Journal of Hazardous Materials*, **2021**, 401, 123283	12.8	11
187	Designing sustainable drainage systems in subtropical cities: Challenges and opportunities. *Journal of Cleaner Production*, **2021**, 280, 124418	10.3	11
186	Activated carbons prepared via reflux-microwave-assisted activation approach with high adsorption capability for methylene blue. *Journal of Environmental Chemical Engineering*, **2021**, 9, 104671	6.8	11
185	Catalytic degradation of waste rubbers and plastics over zeolites to produce aromatic hydrocarbons. *Journal of Cleaner Production*, **2021**, 309, 127469	10.3	11
184	Pyrolysis temperature-dependent carbon retention and stability of biochar with participation of calcium: Implications to carbon sequestration. *Environmental Pollution*, **2021**, 287, 117566	9.3	11
183	Catalytic pyrolysis of low-rank coal using Fe-carbon composite as a catalyst. *Energy Conversion and Management*, **2019**, 199, 111978	10.6	10
182	Synthesis of FeCoNi@N-doped carbon oxygen reduction catalysts via microwave-assisted ammoxidation. *Catalysis Science and Technology*, **2020**, 10, 3949-3958	5.5	10
181	Cu(II)-catalyzed degradation of ampicillin: effect of pH and dissolved oxygen. *Environmental Science and Pollution Research*, **2018**, 25, 4279-4288	5.1	10
180	Nickel and Zinc Removal from Acid Mine Drainage: Roles of Sludge Surface Area and Neutralising Agents **2013**, 2013, 1-5		10
179	Distribution, source apportionment, and health risk assessment of polycyclic aromatic hydrocarbons in urban soils from Shenyang, China. *Environmental Geochemistry and Health*, **2020**, 42, 1817-1832	4.7	10
178	NaCl-promoted phase transition and glycosidic bond cleavage under microwave heating for energy-efficient biorefinery of rice starch. *Green Chemistry*, **2020**, 22, 7355-7365	10	10
177	Efficient Depolymerization of Cellulosic Paper Towel Waste Using Organic Carbonate Solvents. *ACS Sustainable Chemistry and Engineering*, **2020**, 8, 13100-13110	8.3	10

176	Effects of field scale in situ biochar incorporation on soil environment in a tropical highly weathered soil. *Environmental Pollution*, **2021**, 272, 116009	9.3	10
175	Sustainable production of high-value gluconic acid and glucaric acid through oxidation of biomass-derived glucose: A critical review. *Journal of Cleaner Production*, **2021**, 312, 127745	10.3	10
174	A review on percarbonate-based advanced oxidation processes for remediation of organic compounds in water. *Environmental Research*, **2021**, 200, 111371	7.9	10
173	Novel insights into the adsorption of organic contaminants by biochar: A review. *Chemosphere*, **2022**, 287, 132113	8.4	10
172	Spatial variation of sediment bacterial community in an acid mine drainage contaminated area and surrounding river basin. *Journal of Environmental Management*, **2019**, 251, 109542	7.9	9
171	Enhanced irreversible fixation of cesium by wetting and drying cycles in soil. *Environmental Geochemistry and Health*, **2019**, 41, 149-157	4.7	9
170	Renewable Energy Generation by Full-Scale Biomass Gasification System Using Agricultural and Forestal Residues. *Practice Periodical of Hazardous, Toxic and Radioactive Waste Management*, **2007**, 11, 177-183		9
169	Growth inhibition of sulfate-reducing bacteria for trichloroethylene dechlorination enhancement. *Environmental Research*, **2020**, 187, 109629	7.9	9
168	Evidences of starch□microwave interactions under hydrolytic and pyrolytic conditions. *Green Chemistry*, **2020**, 22, 7109-7118	10	9
167	Biochar as an (Im)mobilizing Agent for the Potentially Toxic Elements in Contaminated Soils **2019**, 255-274		9
166	A combined management scheme to simultaneously mitigate As and Cd concentrations in rice cultivated in contaminated paddy soil. *Journal of Hazardous Materials*, **2021**, 416, 125837	12.8	9
165	New insights into ball milling effects on MgAl-LDHs exfoliation on biochar support: A case study for cadmium adsorption. *Journal of Hazardous Materials*, **2021**, 416, 126258	12.8	9
164	Pig carcass-derived biochar caused contradictory effects on arsenic mobilization in a contaminated paddy soil under fluctuating controlled redox conditions. *Journal of Hazardous Materials*, **2022**, 421, 126647	12.8	9
163	Emulsified polycolloid substrate biobarrier for benzene and petroleum-hydrocarbon plume containment and migration control - A field-scale study. *Science of the Total Environment*, **2019**, 666, 839-848	10.2	8
162	Beneficial use of CO2 in pyrolysis of chicken manure to fabricate a sorptive material for CO2. *Applied Thermal Engineering*, **2019**, 154, 469-475	5.8	8
161	Valorization of plastics and paper mill sludge into carbon composite and its catalytic performance for acarbon material consisted of the multi-layerzo dye oxidation. *Journal of Hazardous Materials*, **2020**, 398, 123173	12.8	8
160	Recovery of the biological function of ethylenediaminetetraacetic acid-washed soils: Roles of environmental variations and microbes. *Science of the Total Environment*, **2020**, 715, 137032	10.2	8
159	Magnetic solid phase extraction using Fe3O4@□cyclodextrin□pid bilayers as adsorbents followed by GC-QTOF-MS for the analysis of nine pesticides. *New Journal of Chemistry*, **2020**, 44, 7727-7739	3.6	8

158	A new DGT technique comprised in a hybrid sensor for the simultaneous measurement of ammonium, nitrate, phosphorus and dissolved oxygen. *Science of the Total Environment*, **2020**, 725, 138447	10.2	8
157	Two-stage multi-fraction first-order kinetic modeling for soil Cd extraction by EDTA. *Chemosphere*, **2018**, 211, 1035-1042	8.4	8
156	Sustainability-inspired upcycling of waste polyethylene terephthalate plastic into porous carbon for CO2 capture. *Green Chemistry*, **2022**,	10	8
155	Biochar-augmented carbon-negative concrete. *Chemical Engineering Journal*, **2021**, 431, 133946	14.7	8
154	Application of an emulsified polycolloid substrate biobarrier to remediate petroleum-hydrocarbon contaminated groundwater. *Chemosphere*, **2019**, 219, 444-455	8.4	8
153	A new DGT technique comprising a hybrid sensor for the simultaneous high resolution 2-D imaging of sulfides, metallic cations, oxyanions and dissolved oxygen. *Journal of Hazardous Materials*, **2021**, 403, 123597	12.8	8
152	New insight into adsorption and reduction of hexavalent chromium by magnetite: Multi-step reaction mechanism and kinetic model developing. *Colloids and Surfaces A: Physicochemical and Engineering Aspects*, **2021**, 611, 125784	5.1	8
151	Iron-crosslinked alginate derived Fe/C composites for atrazine removal from water. *Science of the Total Environment*, **2021**, 756, 143866	10.2	8
150	Sorption of reactive red by biochars ball milled in different atmospheres: Co-effect of surface morphology and functional groups. *Chemical Engineering Journal*, **2021**, 413, 127468	14.7	8
149	Nitrate removal uncertainty in stormwater control measures: Is the design or climate a culprit?. *Water Research*, **2021**, 190, 116781	12.5	8
148	Heterogeneous Diels-Alder tandem catalysis for converting cellulose and polyethylene into BTX. *Journal of Hazardous Materials*, **2021**, 414, 125418	12.8	8
147	Synergistic role of bulk carbon and iron minerals inherent in the sludge-derived biochar for As(V) immobilization. *Chemical Engineering Journal*, **2021**, 417, 129183	14.7	8
146	Chemical and photo-initiated aging enhances transport risk of microplastics in saturated soils: Key factors, mechanisms, and modeling. *Water Research*, **2021**, 202, 117407	12.5	8
145	Machine learning exploration of the direct and indirect roles of Fe impregnation on Cr(VI) removal by engineered biochar. *Chemical Engineering Journal*, **2022**, 428, 131967	14.7	8
144	Prediction of Soil Heavy Metal Immobilization by Biochar Using Machine Learning.. *Environmental Science & Technology*, **2022**,	10.3	8
143	Water resistance of magnesium oxychloride cement wood board with the incorporation of supplementary cementitious materials. *Construction and Building Materials*, **2020**, 255, 119145	6.7	7
142	Soil and geologic formations as antidotes for CO2 sequestration?. *Soil Use and Management*, **2020**, 36, 355-357	3.1	7
141	Formation of composite sorbent by P. chrysogenum strain F1 and ferrihydrite in water for arsenic removal. *International Biodeterioration and Biodegradation*, **2018**, 132, 208-215	4.8	7

140	Ferric-enhanced chemical remediation of dredged marine sediment contaminated by metals and petroleum hydrocarbons. *Environmental Pollution*, **2018**, 243, 87-93	9.3	7
139	Influence of Pore-Water Velocity on Transport Behavior of Cadmium: Equilibrium versus Nonequilibrium. *Practice Periodical of Hazardous, Toxic and Radioactive Waste Management*, **2006**, 10, 162-170		7
138	Tailoring acidity and porosity of alumina catalysts via transition metal doping for glucose conversion in biorefinery. *Science of the Total Environment*, **2020**, 704, 135414	10.2	7
137	Sustainable use of biochar for resource recovery and pharmaceutical removal from human urine: A critical review. *Critical Reviews in Environmental Science and Technology*, **2020**, 1-33	11.1	7
136	Stress-Strain behaviour of Cement-Stabilized Hong Kong marine deposits. *Construction and Building Materials*, **2021**, 274, 122103	6.7	7
135	Novel recycling of incinerated sewage sludge ash (ISSA) and waste bentonite as ceramsite for Pb-containing wastewater treatment: Performance and mechanism. *Journal of Environmental Management*, **2021**, 288, 112382	7.9	7
134	Stacking MFI zeolite structures for improved Sonogashira coupling reactions. *Microporous and Mesoporous Materials*, **2019**, 276, 147-153	5.3	7
133	Diels-Alder Conversion of Acrylic Acid and 2,5-Dimethylfuran to para-Xylene Over Heterogeneous Bi-BTC Metal-Organic Framework Catalysts Under Mild Conditions. *Angewandte Chemie - International Edition*, **2021**, 60, 624-629	16.4	7
132	Stable isotope fractionation of thallium as novel evidence for its geochemical transfer during lead-zinc smelting activities. *Science of the Total Environment*, **2022**, 803, 150036	10.2	7
131	Critical factors for levulinic acid production from starch-rich food waste: solvent effects, reaction pressure, and phase separation. *Green Chemistry*, **2022**,	10	7
130	Recycling of lithium iron phosphate batteries: Status, technologies, challenges, and prospects. *Renewable and Sustainable Energy Reviews*, **2022**, 163, 112515	16.2	7
129	Engineered Nitrogen-Decorated Carbon Networks for the Metal-Free Catalytic Isomerization of Glucose to Fructose. *ACS Sustainable Chemistry and Engineering*, **2019**, 7, 16959-16963	8.3	6
128	Silica Supported MgO as An Adsorbent for Precombustion CO2 Capture. *ACS Applied Nano Materials*, **2019**, 2, 6565-6574	5.6	6
127	Green remediation by using low-carbon cement-based stabilization/solidification approaches **2020**, 93-118		6
126	Scavenger-free and self-powered photocathodic sensing system for aqueous hydrogen peroxide monitoring by CuO/ZnO nanostructure. *Chemical Engineering Science*, **2020**, 226, 115886	4.4	6
125	The shuttling effects and associated mechanisms of different types of iron oxide nanoparticles for Cu(II) reduction by Geobacter sulfurreducens. *Journal of Hazardous Materials*, **2020**, 393, 122390	12.8	6
124	Quantification of volatile fatty acids from cattle manure via non-catalytic esterification for odour indication. *Science of the Total Environment*, **2018**, 610-611, 992-996	10.2	6
123	Applications of Citric Acid Industrial Wastewater and Phosphonates for Soil Remediation: Effects on Temporal Change of Cadmium Distribution. *Soil and Sediment Contamination*, **2013**, 22, 876-889	3.2	6

122	Research on the Mechanical Strengths and the Following Corrosion Resistance of Inner Steel Bars of RPC with Rice Husk Ash and Waste Fly Ash. *Coatings*, **2021**, 11, 1480	2.9	6
121	Effect of phosphorus supplementation on growth, nutrient uptake, physiological responses, and cadmium absorption by tall fescue (Festuca arundinacea Schreb.) exposed to cadmium. *Ecotoxicology and Environmental Safety*, **2021**, 213, 112021	7	6
120	Adsorptive and Reductive Removal of Chlorophenol from Wastewater by Biomass-Derived Mesoporous Carbon-Supported Sulfide Nanoscale Zerovalent Iron. *Nanomaterials*, **2019**, 9,	5.4	6
119	Thallium geochemical fractionation and migration in Tl-As rich soils: The key controls. *Science of the Total Environment*, **2021**, 784, 146995	10.2	6
118	Promoting Diels-Alder reactions to produce bio-BTX: Co-aromatization of textile waste and plastic waste over USY zeolite. *Journal of Cleaner Production*, **2021**, 314, 127966	10.3	6
117	Enhanced trichloroethylene biodegradation: Roles of biochar-microbial collaboration beyond adsorption. *Science of the Total Environment*, **2021**, 792, 148451	10.2	6
116	Fast hydropyrolysis of biomass Conversion: A comparative review. *Bioresource Technology*, **2021**, 342, 126067	11	6
115	Green remediation of benzene contaminated groundwater using persulfate activated by biochar composite loaded with iron sulfide minerals. *Chemical Engineering Journal*, **2022**, 429, 132292	14.7	6
114	The sorption and short-term immobilization of lead and cadmium by nano-hydroxyapatite/biochar in aqueous solution and soil. *Chemosphere*, **2022**, 286, 131810	8.4	6
113	Study of glucose isomerisation to fructose over three heterogeneous carbon-based aluminium-impregnated catalysts. *Journal of Cleaner Production*, **2020**, 268, 122378	10.3	5
112	Bio-mimicking TiO2 architectures for enhanced photocatalytic activity under UV and visible light. *RSC Advances*, **2017**, 7, 39098-39108	3.7	5
111	Silicon fertilizers, humic acid and their impact on physicochemical properties, availability and distribution of heavy metals in soil and soil aggregates.. *Science of the Total Environment*, **2022**, 153483	10.2	5
110	Size-activity threshold of titanium dioxide-supported Cu cluster in CO oxidation. *Environmental Pollution*, **2021**, 279, 116899	9.3	5
109	Rice husk-derived biochar can aggravate arsenic mobility in ferrous-rich groundwater during oxygenation. *Water Research*, **2021**, 200, 117264	12.5	5
108	Cytotoxicity of stabilized/solidified municipal solid waste incineration fly ash. *Journal of Hazardous Materials*, **2022**, 424, 127369	12.8	5
107	Biochar-based slow-release of fertilizers for sustainable agriculture: A mini review. *Environmental Science and Ecotechnology*, **2022**, 10, 100167	7.4	5
106	Carbon dioxide assisted thermal decomposition of cattle excreta. *Science of the Total Environment*, **2018**, 615, 70-77	10.2	4
105	Influence of Natural Organic Matter on Contaminant Removal by Permeable Reactive Barrier **2014**, 19-40		4

104	Design, Implementation, and Economic/Societal Considerations of Chelant-Enhanced Soil Washing **2012**, 1-26		4
103	Influence of Waste Fly Ash on the Rheological Properties of Fresh Cement Paste and the Following Electrical Performances and Mechanical Strengths of Hardened Specimens. *Coatings*, **2021**, 11, 1558	2.9	4
102	Modeling and visualizing the transport and retention of cationic and oxyanionic metals (Cd and Cr) in saturated soil under various hydrochemical and hydrodynamic conditions. *Science of the Total Environment*, **2021**, 151467	10.2	4
101	Magnetic MgFeO/biochar derived from pomelo peel as a persulfate activator for levofloxacin degradation: Effects and mechanistic consideration.. *Bioresource Technology*, **2021**, 346, 126547	11	4
100	Engineering and microstructure properties of contaminated marine sediments solidified by high content of incinerated sewage sludge ash. *Journal of Rock Mechanics and Geotechnical Engineering*, **2020**,	5.3	4
99	Short- and Long-Term Biochar Cadmium and Lead Immobilization Mechanisms. *Environments - MDPI* , **2020**, 7, 53	3.2	4
98	Evaluating the environmental impact of contaminated sediment column stabilized by deep cement mixing. *Chemosphere*, **2020**, 261, 127755	8.4	4
97	Distribution and migration characteristics of dinitrotoluene sulfonates (DNTs) in typical TNT production sites: Effects and health risk assessment. *Journal of Environmental Management*, **2021**, 287, 112342	7.9	4
96	A cross-region analysis of commercial food waste recycling behaviour. *Chemosphere*, **2021**, 274, 129750	8.4	4
95	Chrysanthemum flower like silica with highly dispersed Cu nanoparticles as a high-performance NO adsorbent. *Journal of Hazardous Materials*, **2021**, 418, 126400	12.8	4
94	Boron application mitigates Cd toxicity in leaves of rice by subcellular distribution, cell wall adsorption and antioxidant system. *Ecotoxicology and Environmental Safety*, **2021**, 222, 112540	7	4
93	Further reuse of phosphorus-laden biochar for lead sorption from aqueous solution: Isotherm, kinetics, and mechanism. *Science of the Total Environment*, **2021**, 792, 148550	10.2	4
92	Preparation of ammonium-modified cassava waste-derived biochar and its evaluation for synergistic adsorption of ternary antibiotics from aqueous solution. *Journal of Environmental Management*, **2021**, 298, 113530	7.9	4
91	Mesoporous ball-milling iron-loaded biochar for enhanced sorption of reactive red: Performance and mechanisms. *Environmental Pollution*, **2021**, 290, 117992	9.3	4
90	Stimulation of pyrolytic carbon materials as electron shuttles on the anaerobic transformation of recalcitrant organic pollutants: A review. *Science of the Total Environment*, **2021**, 801, 149696	10.2	4
89	Co-pyrolysis route of chlorella sp. and bauxite tailings to fabricate metal-biochar as persulfate activator. *Chemical Engineering Journal*, **2022**, 428, 132578	14.7	4
88	Coupling mixture reference models with DGT-perceived metal flux for deciphering the nonadditive effects of rare earth mixtures to wheat in soils. *Environmental Research*, **2020**, 188, 109736	7.9	3
87	Mechanisms of EDDS Adsorption on Goethite and Hematite Under Aqueous and Dehydrated Conditions. *Environmental Engineering Science*, **2013**, 30, 733-741	2	3

86	Evaluation of long-term carbon sequestration of biochar in soil with biogeochemical field model.. *Science of the Total Environment*, **2022**, 822, 153576	10.2	3
85	Direct and Indirect Electron Transfer Routes of Chromium(VI) Reduction with Different Crystalline Ferric Oxyhydroxides in the Presence of Pyrogenic Carbon.. *Environmental Science & Technology*, **2022**,	10.3	3
84	Electroactive Fe-biochar for redox-related remediation of arsenic and chromium: Distinct redox nature with varying iron/carbon speciation. *Journal of Hazardous Materials*, **2022**, 430, 128479	12.8	3
83	Efficient removal of hexavalent chromium through adsorption-reduction-adsorption pathway by iron-clay biochar composite prepared from Populus nigra. *Separation and Purification Technology*, **2022**, 285, 120386	8.3	3
82	Ball-milled magnetite for efficient arsenic decontamination: Insights into oxidation-adsorption mechanism.. *Journal of Hazardous Materials*, **2021**, 427, 128117	12.8	3
81	The amelioration effects of canola straw biochar on Ultisol acidity varied with the soil in which the feedstock crop was cultivated. *Journal of Soils and Sediments*, **2020**, 20, 1424-1434	3.4	3
80	Disinfection techniques of human norovirus in municipal wastewater: Challenges and future perspectives. *Current Opinion in Environmental Science and Health*, **2020**, 17, 29-34	8.1	3
79	Vacuum ultraviolet irradiation for mitigating dissolved organic nitrogen and formation of haloacetonitriles. *Environmental Research*, **2020**, 185, 109454	7.9	3
78	Iron-based materials for removal of arsenic from water **2021**, 209-245		3
77	Is froth flotation a potential scheme for microplastics removal? Analysis on flotation kinetics and surface characteristics. *Science of the Total Environment*, **2021**, 792, 148345	10.2	3
76	Experimental and DFT investigation on N-functionalized biochars for enhanced removal of Cr(VI). *Environmental Pollution*, **2021**, 291, 118244	9.3	3
75	Impact of catalytic hydrothermal treatment and Ca/Al-modified hydrochar on lability, sorption, and speciation of phosphorus in swine manure: Microscopic and spectroscopic investigations.. *Environmental Pollution*, **2022**, 299, 118877	9.3	2
74	Stoichiometric carbocatalysis via epoxide-like C-S-O configuration on sulfur-doped biochar for environmental remediation.. *Journal of Hazardous Materials*, **2022**, 428, 128223	12.8	2
73	Interactions between biochar and clay minerals in changing biochar carbon stability. *Science of the Total Environment*, **2021**, 809, 151124	10.2	2
72	Comparison of pollutant source tracking approaches: Heavy metals deposited on urban road surfaces as a case study. *Environmental Pollution*, **2020**, 266, 115253	9.3	2
71	New insights into the underlying influence of bentonite on Pb immobilization by undissolvable and dissolvable fractions of biochar. *Science of the Total Environment*, **2021**, 775, 145824	10.2	2
70	Characteristics and Influencing Factors of Microbial Community in Heavy Metal Contaminated Soil under Silicon Fertilizer and Biochar Remediation. *Adsorption Science and Technology*, **2021**, 2021, 1-10	3.6	2
69	Sludge-Derived Biochar and Its Application in Soil Fixation **2019**, 239-253		2

68	Novel Application of Biochar in Stormwater Harvesting **2019**, 319-347		2
67	Valorization of plastics and goethite into iron-carbon composite as persulfate activator for amaranth oxidation. *Chemical Engineering Journal*, **2021**, 407, 127188	14.7	2
66	The FeO-modified biochar reduces arsenic availability in soil and arsenic accumulation in indica rice (Oryza sativa L.). *Environmental Science and Pollution Research*, **2021**, 28, 18050-18061	5.1	2
65	A holistic understanding of cobalt cycling and limiting roles in the eutrophic Lake Taihu. *Chemosphere*, **2021**, 277, 130234	8.4	2
64	A holistic DPSIR-based approach to the remediation of heavily contaminated coastal areas. *Environmental Pollution*, **2021**, 284, 117129	9.3	2
63	Ambient NO2 adsorption removal by MgAl layered double hydroxides and derived mixed metal oxides. *Journal of Cleaner Production*, **2021**, 313, 127956	10.3	2
62	High-efficiency degradation of p-arsanilic acid and arsenic immobilization with iron encapsulated B/N-doped carbon nanotubes at natural solution pH. *Science of the Total Environment*, **2021**, 785, 147152	10.2	2
61	Mechanistic insights into trace metal mobilization at the micro-scale in the rhizosphere of Vallisneria spiralis. *Science of the Total Environment*, **2022**, 806, 150735	10.2	2
60	GenX is not always a better fluorinated organic compound than PFOA: A critical review on aqueous phase treatability by adsorption and its associated cost. *Water Research*, **2021**, 205, 117683	12.5	2
59	Anti-mold activity and reaction mechanism of bamboo modified with laccase-mediated thymol. *Industrial Crops and Products*, **2021**, 172, 114067	5.9	2
58	Phosphorus acquisition strategy of Vallisneria natans in sediment based on in situ imaging techniques. *Environmental Research*, **2021**, 202, 111635	7.9	2
57	Synergistic effects of blending seafood wastes as Co-pyrolysis feedstock on syngas production and biochar properties. *Chemical Engineering Journal*, **2022**, 429, 132487	14.7	2
56	Wheat straw derived biochar with hierarchically porous structure for bisphenol A removal: Preparation, characterization, and adsorption properties. *Separation and Purification Technology*, **2022**, 289, 120796	8.3	2
55	Removal of toxic elements from aqueous environments using nano zero-valent iron- and iron oxide-modified biochar: a review. *Biochar*, **2022**, 4, 1	10	2
54	Source tracing with cadmium isotope and risk assessment of heavy metals in sediment of an urban river, China.. *Environmental Pollution*, **2022**, 119325	9.3	2
53	Biochar production with amelioration of microwave-assisted pyrolysis: Current scenario, drawbacks and perspectives.. *Bioresource Technology*, **2022**, 355, 127303	11	2
52	Sustainable management of plastic wastes in COVID-19 pandemic: The biochar solution. *Environmental Research*, **2022**, 113495	7.9	2
51	Carbon dioxide sequestration on composites based on waste wood **2018**, 431-450		1

50	Lignite-Derived Humic Substances for Treatment of Acid Mine Drainage. *Environmental Engineering Science*, **2013**, 30, 638-645	2	1
49	Disparity of Cadmium Transport Behavior in Soils at Different Temperatures. *Practice Periodical of Hazardous, Toxic and Radioactive Waste Management*, **2007**, 11, 97-105		1
48	Thermochemical conversion of heavy metal contaminated biomass: Fate of the metals and their impact on products.. *Science of the Total Environment*, **2022**, 822, 153426	10.2	1
47	Co-application of biochar and organic fertilizer promotes the yield and quality of red pitaya (Hylocereus polyrhizus) by improving soil properties.. *Chemosphere*, **2022**, 294, 133619	8.4	1
46	Vinasse-based biochar magnetic composites: adsorptive removal of tetracycline in aqueous solutions.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	1
45	Activation of peroxydisulfate by ball-milled □FeOOH/biochar composite for phenol removal: Component contribution and internal mechanisms. *Environmental Pollution*, **2021**, 293, 118596	9.3	1
44	Rice husk biochar modified-CuCoO as an efficient peroxymonosulfate activator for non-radical degradation of organic pollutants from aqueous environment.. *RSC Advances*, **2021**, 11, 39467-39475	3.7	1
43	Chrome-free synergistic tanning system based on biomass-derived hydroxycarboxylic acid□irconium complexes. *Journal of Cleaner Production*, **2022**, 336, 130428	10.3	1
42	Insights into deep decline of As(III) leachability induced by As(III) partial oxidation during lime stabilization of As-Ca sludge. *Journal of Hazardous Materials*, **2021**, 424, 127575	12.8	1
41	Biorefinery-assisted soil management for enhancing food security. *Journal of Soils and Sediments*, **2020**, 20, 4007-4010	3.4	1
40	Efficient Removal of Antimony(III) in Aqueous Phase by Nano-Fe3O4 Modified High-Iron Red Mud: Study on Its Performance and Mechanism. *Water (Switzerland)*, **2021**, 13, 809	3	1
39	Magnetic biochar-based composites for removal of recalcitrant pollutants in water **2021**, 163-187		1
38	Development of phosphorus composite biochar for simultaneous enhanced carbon sink and heavy metal immobilization in soil.. *Science of the Total Environment*, **2022**, 154845	10.2	1
37	A review of pristine and modified biochar immobilizing typical heavy metals in soil: Applications and challenges.. *Journal of Hazardous Materials*, **2022**, 432, 128668	12.8	1
36	Control of the fate of toxic pollutants from catalytic pyrolysis of polyurethane by oxidation using CO2. *Chemical Engineering Journal*, **2022**, 442, 136358	14.7	1
35	Enhancing microplastics biodegradation during composting using livestock manure biochar.. *Environmental Pollution*, **2022**, 119339	9.3	1
34	Investigations of the Mechanical Properties and Durability of Reactive Powder Concrete Containing Waste Fly Ash. *Buildings*, **2022**, 12, 560	3.2	1
33	Applications and influencing factors of the biochar-persulfate based advanced oxidation processes for the remediation of groundwater and soil contaminated with organic compounds.. *Science of the Total Environment*, **2022**, 155421	10.2	1

32	Partitioning and (im)mobilization of arsenic associated with iron in arsenic-bearing deep subsoil profiles from Hong Kong. *Environmental Pollution*, **2022**, 119527	9.3	1
31	Catalytic valorisation of various paper wastes into levulinic acid, hydroxymethylfurfural, and furfural: Influence of feedstock properties and ferric chloride. *Bioresource Technology*, **2022**, 357, 127376	11	1
30	Influence of Dolomite Rock Powder and Iron Tailings Powder on the Electrical Resistivity, Strength and Microstructure of Cement Pastes and Concrete. *Coatings*, **2022**, 12, 95	2.9	0
29	Overview of hazardous waste treatment and stabilization/solidification technology **2022**, 1-14		0
28	Biochar for green and sustainable stabilization/solidification **2022**, 65-73		0
27	Efficient removal of pefloxacin from aqueous solution by acid-alkali modified sludge-based biochar: adsorption kinetics, isotherm, thermodynamics, and mechanism.. *Environmental Science and Pollution Research*, **2022**, 1	5.1	0
26	Sewage sludge ash-based mortar as construction material: Mechanical studies, macrofouling, and marine toxicity.. *Science of the Total Environment*, **2022**, 153768	10.2	0
25	Life-cycle assessment of food waste recycling **2020**, 481-513		0
24	Effects of modified biochar on As-contaminated water and soil: A recent update. *Advances in Chemical Pollution, Environmental Management and Protection*, **2021**, 7, 107-136	1.5	0
23	Mechanochemical modification of biochar-attapulgite nanocomposites for cadmium removal: Performance and mechanisms. *Biochemical Engineering Journal*, **2022**, 179, 108332	4.2	0
22	Contrasting effects of dry-wet and freeze-thaw aging on the immobilization of As in As-contaminated soils amended by zero-valent iron-embedded biochar.. *Journal of Hazardous Materials*, **2021**, 426, 128123	12.8	0
21	Mg-Fe LDH-coated biochars for metal(loid) removal: Surface complexation modeling and structural change investigations. *Chemical Engineering Journal*, **2022**, 432, 134360	14.7	0
20	Theory of planned behavior on food waste recycling **2020**, 221-239		0
19	Chemical Characterization of Mine Sites **2017**, 17-32		0
18	The effect of oxygen on in-situ evolution of chemical structures during the autothermal process of tobacco. *Journal of Analytical and Applied Pyrolysis*, **2021**, 159, 105321	6	0
17	New insights into physicochemical properties of different particulate size-fractions and dissolved organic matter derived from biochars and their sorption capacity for phenanthrene.. *Journal of Hazardous Materials*, **2022**, 434, 128867	12.8	0
16	Soil plastisphere: Exploration methods, influencing factors, and ecological insights. *Journal of Hazardous Materials*, **2022**, 430, 128503	12.8	0
15	Unintentional release of antibiotics associated with nutrients recovery from source-separated human urine by biochar.. *Chemosphere*, **2022**, 299, 134426	8.4	0

14	Valorizing plastic toy wastes to flammable gases through CO-mediated pyrolysis with a Co-based catalyst.. *Journal of Hazardous Materials*, **2022**, 434, 128850	12.8	0
13	Selective hydrogenation of vanillin to vanillyl alcohol over Pd, Pt, and Au catalysts supported on an advanced nitrogen-containing carbon material produced from food waste. *Chemical Engineering Journal*, **2022**, 440, 135885	14.7	0
12	Effects of lead pollution on soil microbial community diversity and biomass and on invertase activity. *Soil Ecology Letters*,1	2.7	0
11	Biochar and sustainable development goals **2022**, 15-22		0
10	Customizing high-performance molten salt biochar from wood waste for CO2/N2 separation. *Fuel Processing Technology*, **2022**, 234, 107319	7.2	0
9	Mobilization of contaminants: Potential for soil remediation and unintended consequences. *Science of the Total Environment*, **2022**, 839, 156373	10.2	0
8	Phosphorus (P) recovery and reuse as fertilizer from incinerated sewage sludge ash (ISSA) **2020**, 263-288		
7	Sustainable carbohydrate-derived building materials **2020**, 285-304		
6	Future research directions for sustainable remediation **2022**, 555-564		
5	Evaluating comprehensive carbon emissions of solidification/stabilization technologies: a case study **2022**, 517-530		
4	Enhancement of Fenton processes at initial circumneutral pH for the degradation of norfloxacin with Fe@FeS core-shell nanowires.. *Environmental Technology (United Kingdom)*, **2022**, 1-24	2.6	
3	Integrated Soil Remediation by Chemical-Enhanced Extraction and Biochar Immobilization for Potentially Toxic Elements **2020**, 201-211		
2	Magnetic nanocomposite-system for the remediation of lead-contaminated urban surface. *E3S Web of Conferences*, **2021**, 266, 08007	0.5	
1	Biochars potential role in the remediation, revegetation, and restoration of contaminated soils **2022**, 381-399		